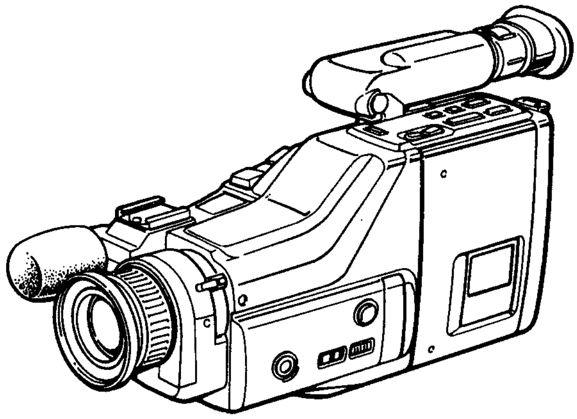
SANYO

PARTS LIST

8mm Camcorder

VM-D66P
VM-D68P



PRODUCTION CODE No.
126 022 03 (SWITZERLAND)
126 022 06 (ITALY)
126 022 05 (SPAIN)
126 022 04 (M-EAST)
126 022 07 (ENGLAND)
126 022 08 (AUSTRALIA)
126 022 00 (GERMANY)

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PRODUCT SAFETY NOTICE

The components designated by a symbol (⚠) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List Do not deviate from the resistance, wattage and voltage ratings shown.

Note : The parts codes of accessories differ depending on destination.
Therefore the following ID codes are applied.

VM-D66P
- Switzerland : SW
- M-East : ME
- Germany : G
- Italy : I
- England : E
- Australia : A

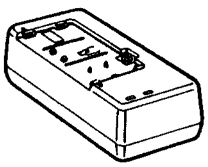
VM-D68P
- Spain : SP

REFERENCE No. WM-550166

ER90P/G, E, A, SP, ME, SW, I

LOCATION	PARTS NO.	DESCRIPTION	LOCATION	PARTS NO.	DESCRIPTION
ACCESSORIES					
1	636 037 9480	CUSHION INNER,UPPER			
2	636 037 9497	CUSHION INNER,LOWER			
3	636 037 9459	CORR CASE INNER(G)			
4	636 038 1872	CORR CASE INNER(E)			
5	636 038 1889	CORR CASE INNER(A)			
6	636 038 1858	CORR CASE INNER(SP)			
7	636 038 1841	CORR CASE INNER(ME)			
8	636 038 1834	CORR CASE INNER(SW)			
9	636 038 1865	CORR CASE INNER(I)			
10	636 037 3235	INSTRUCTION MANUAL (GERMAN/ENGLISH/FRENCH)(G)			
OR	636 037 3242	INSTRUCTION MANUAL (SWEDISH/DUTCH/ITALIAN)(G)			
11	636 038 6143	INSTRUCTION MANUAL(E)			
12	636 039 7743	INSTRUCTION MANUAL (SPANISH/ENGLISH/FRENCH)(SP)			
13	636 038 1353	INSTRUCTION MANUAL(ENGLISH/ARABIC) (ME)			
OR	636 038 1360	INSTRUCTION MANUAL(RUSSIAN/CHINESE) (ME)			
14	636 038 1339	INSTRUCTION MANUAL (GERMAN/ENGLISH/FRENCH)(SW)			
OR	636 038 1346	INSTRUCTION MANUAL (SWEDISH/DUTCH/ITALIAN)(SW)			
15	636 039 6326	INSTRUCTION MANUAL (ITALIAN/DUTCH/SWEDISH)(I)			
16	636 038 6150	INSTRUCTION MANUAL(A)			
17	636 037 8650	ADAPTER,AC(G,ME,SP,SW,I)			
18	636 037 8711	ADAPTOR,AC(E)			
19	636 037 8735	ADAPTOR,AC(A)			
20	636 032 5241	REMOCON,WIRELESS SRN			
21	636 038 0271	CABLE,DC OUTPUT			
OR	636 039 5145	CABLE,DC OUTPUT			
22	636 031 2302	CABLE,RCA(G,SW,A)			
OR	636 033 4861	CABLE,RCA(G,SW,A)			
23	636 022 2458	CORD,DC OUT(G,SW)			
24	636 024 7239	CABLE,RF(E,A,SP,ME,I)			
25	636 032 0987	ADAPTER,RF(SP,ME,I)			
26	636 036 3410	ADAPTER,RF(A)			
27	636 036 0662	ASSY,BELT			

⑰, ⑱, ⑲



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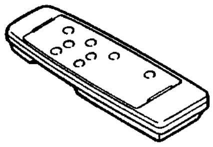

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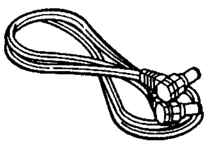

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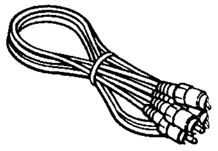

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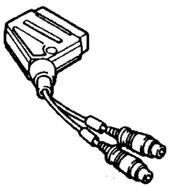

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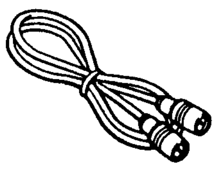

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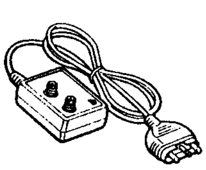

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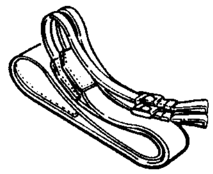
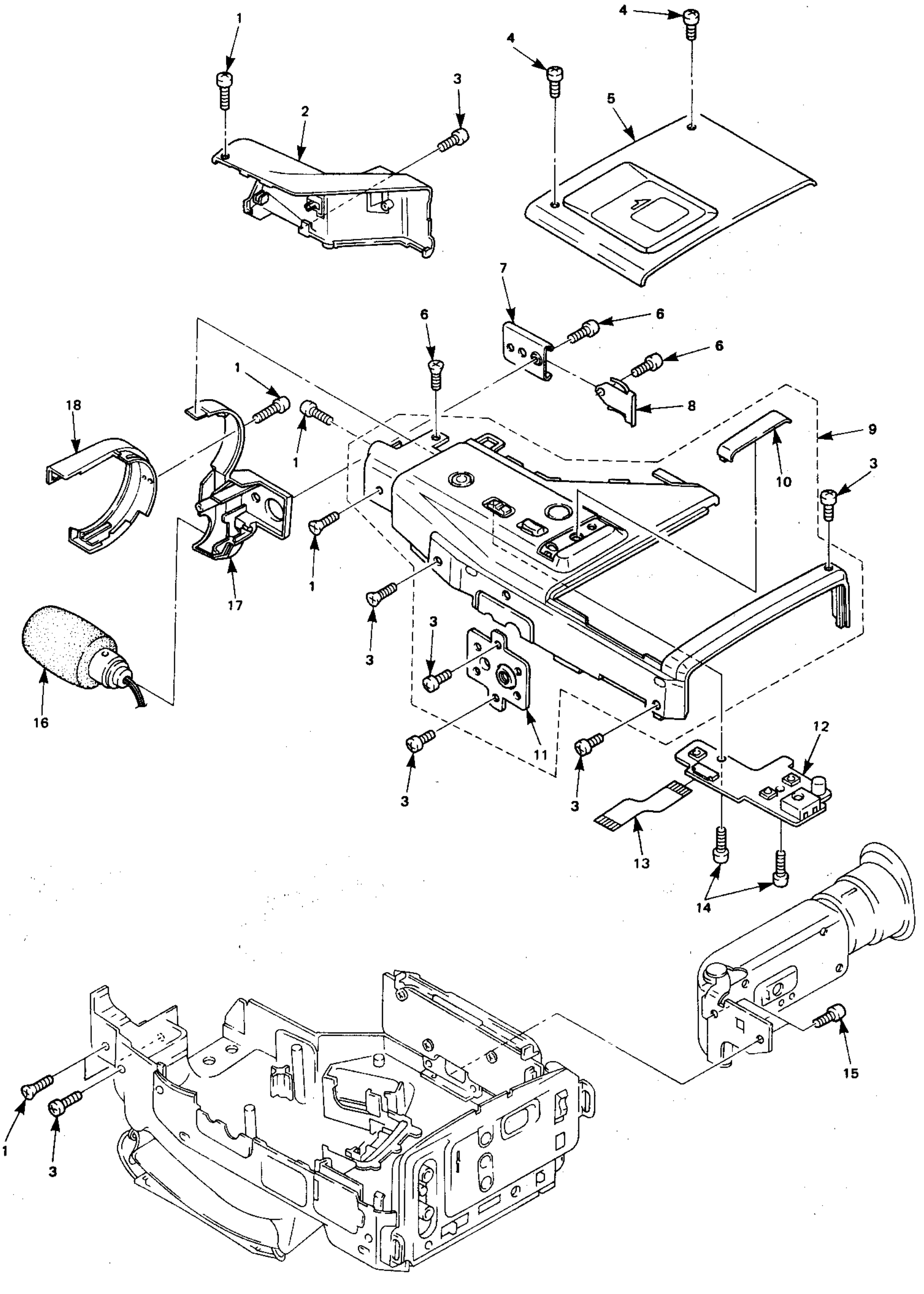


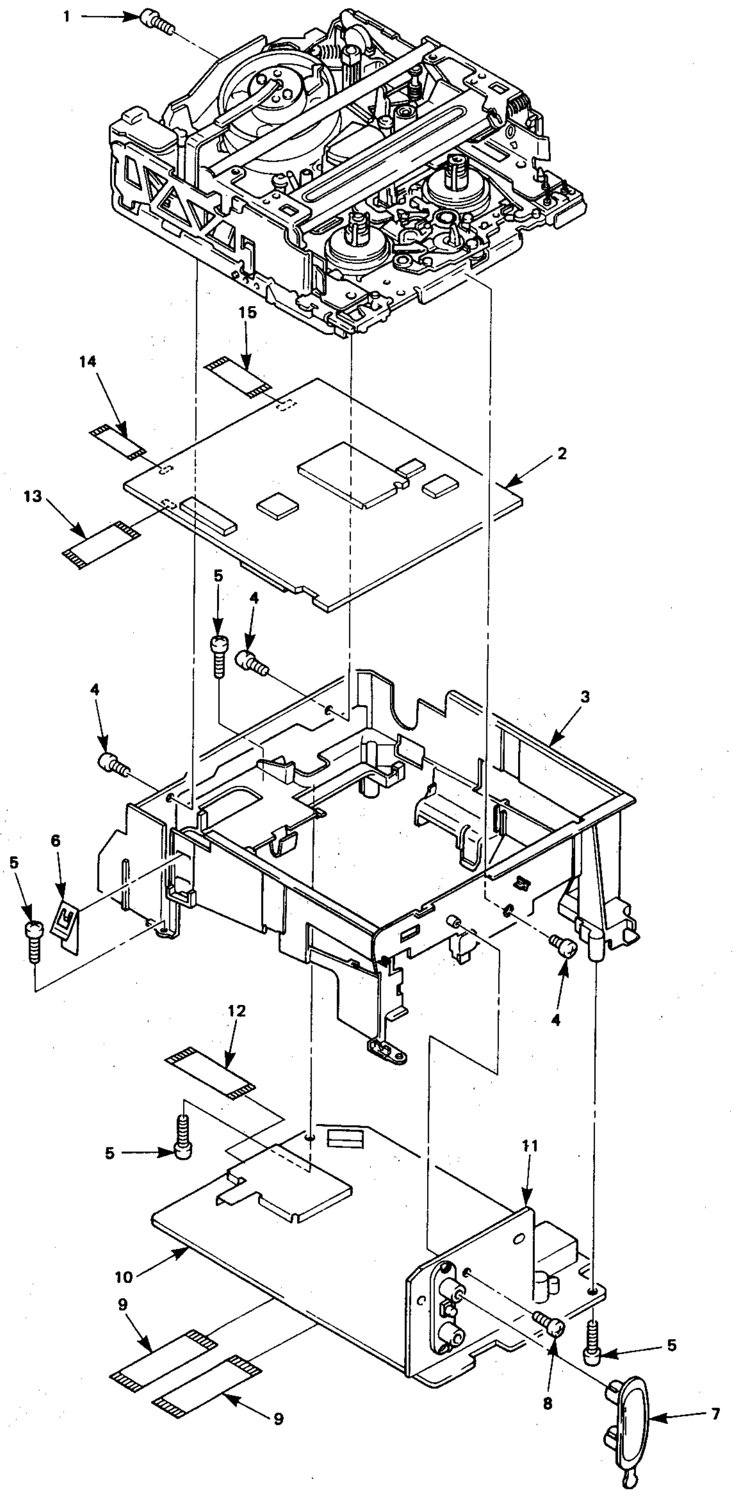
CABINET 1

LOCATION	PARTS NO.	DESCRIPTION
1	411 025 4209	SCR S-TPG BIN 2X6
2	636 037 9848	ASSY.CABINET,TOP
3	411 030 5901	SCR BIN 2X4
4	411 018 7408	SCR PAN PCS 2X4
5	636 037 9909	ASSY,DOOR
6	411 030 7301	SCR BIN 2X6
7	636 024 8045	SLIDE,ACC
8	636 024 8014	PLATE SPRING,ACC
9	636 037 9817	ASSY,CABINET,LEFT
10	636 039 5787	WINDOW
11	636 033 4106	ASSY,STAND
12	636 037 7738	COMPL,PCB,TC-2
13	636 037 9626	FFC 90 11
OR	636 039 6302	FFC 90 11
14	411 025 3905	SCR S-TPG BIN 2X5
15	412 032 8501	SPECIAL SCREW
16	636 029 0341	ASSY,MICROPHONE
17	636 037 0258	ASSY,COVER,TOP
18	636 030 7230	FRAME



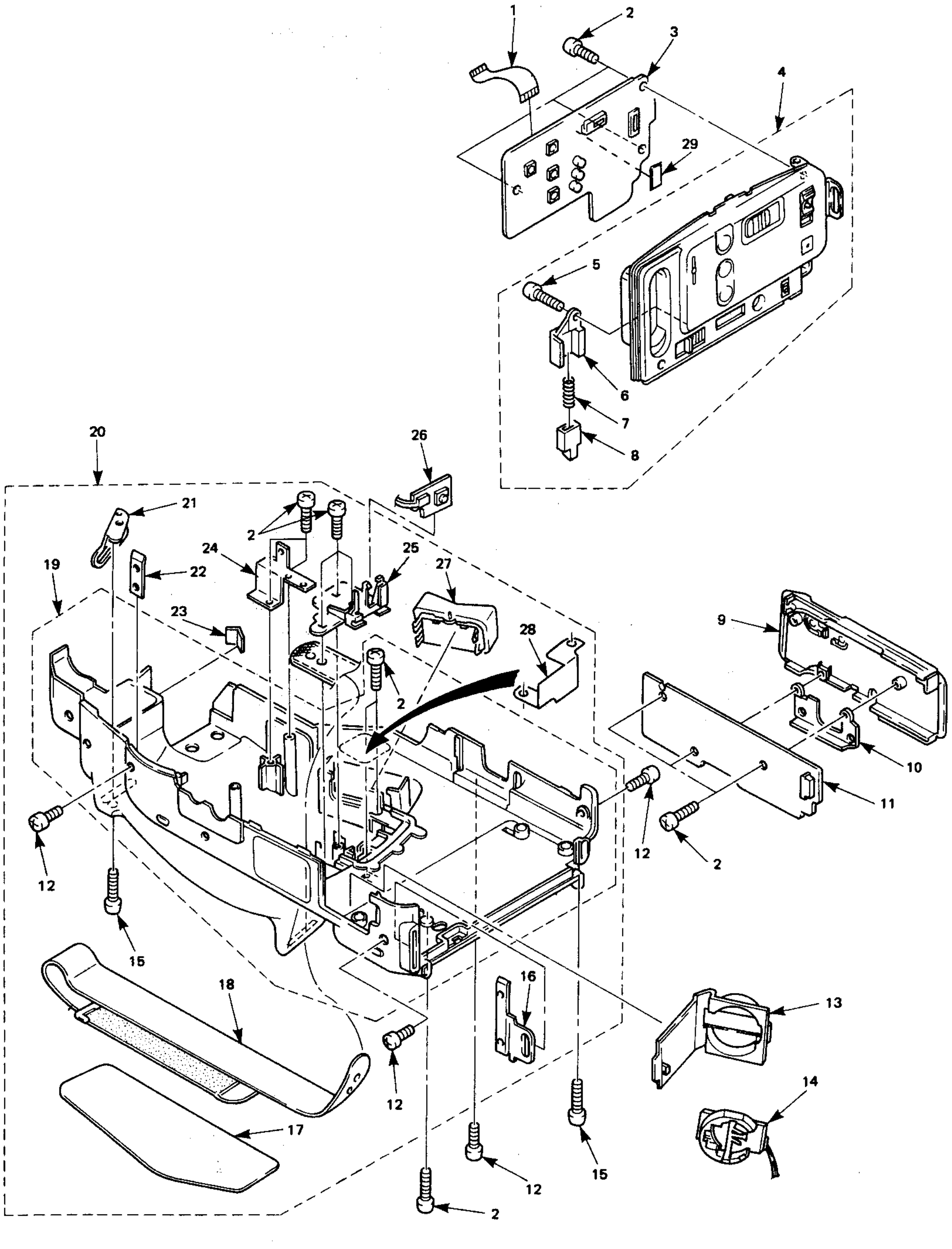
CABINET 2

LOCATION	PARTS NO.	DESCRIPTION
1	411 129 4907	SCR PAN PCS 2X2
2	636 037 5826	COMPL,PCB,SV-1
3	636 037 9121	HOLDER,MECHA
4	412 044 5406	SPECIAL SCREW
5	411 025 9204	SCR S-TPG PAN 2X6
6	636 038 2572	EARTH,MECHA
7	636 037 8612	COVER,AV
8	411 030 5901	SCR BIN 2X4
9	636 038 1827	FFC 40 16
10	636 037 5789	COMPL,PCB,VD-1
11	636 037 5819	COMPL,PCB,VD-2
12	636 039 1895	F-PCB,PRE AMP
13	636 037 5581	F-PCB,CYLINDER
14	636 039 1673	F-PCB,LOAD MTR
15	636 037 5574	F-PCB,CAP MTR



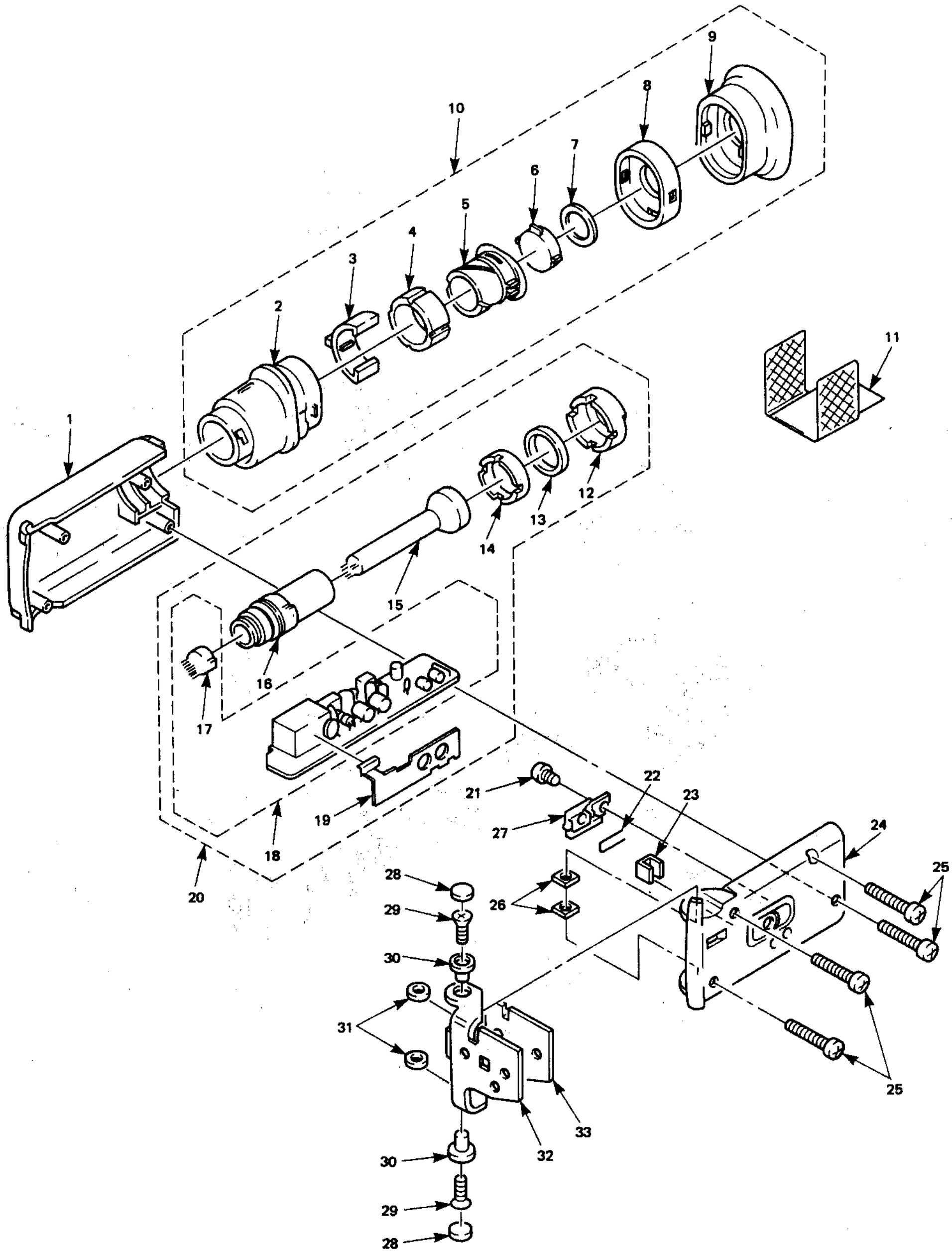
CABINET 3

LOCATION	PARTS NO.	DESCRIPTION
1	636 039 1543	FFC 100 10
OR	636 039 6319	FFC 100 10
2	411 025 4209	SCR S-TPG BIN 2X6
3	636 037 5833	COMPL,PCB,SY-1
4	636 037 9879	ASSY,PANEL,CONTROL,B
5	411 025 9204	SCR S-TPG PAN 2X6
6	636 024 7703	HOLDER
7	636 024 7994	SPRING
8	636 024 8038	SLIDE
9	636 037 9886	ASSY,PANEL,CONTROL
10	636 024 7673	BRACKET,VF
11	636 037 5840	COMPL.PCB.SY-2
12	411 030 5901	SCR BIN 2X4
13	636 024 7390	LID,LITHUM
14	636 039 1260	COMPL,PCB,TB-2
15	411 030 7301	SCR BIN 2X6
16	636 024 7642	BRACKET,SHOULDER DOWN
17	636 021 3197	PAD
18	636 024 8090	ASSY,BELT
19	636 037 9824	ASSY,CABINET,RIGHT
20	636 037 9831	COMPL,CABINET,RIGHT
21	636 028 9611	BRACKET,GRIP BELT
22	636 038 1100	BRACKET
23	636 027 4105	SPACER,MIC
24	636 037 9114	BRACKET,MECHA
25	636 024 7765	HOLDER,REC S/S
26	636 025 2271	COMPL,PCB,TB-1
27	636 039 2182	SW,ZOOM
28	636 039 5428	INSULATOR
29	636 038 4439	SPACER,TOP



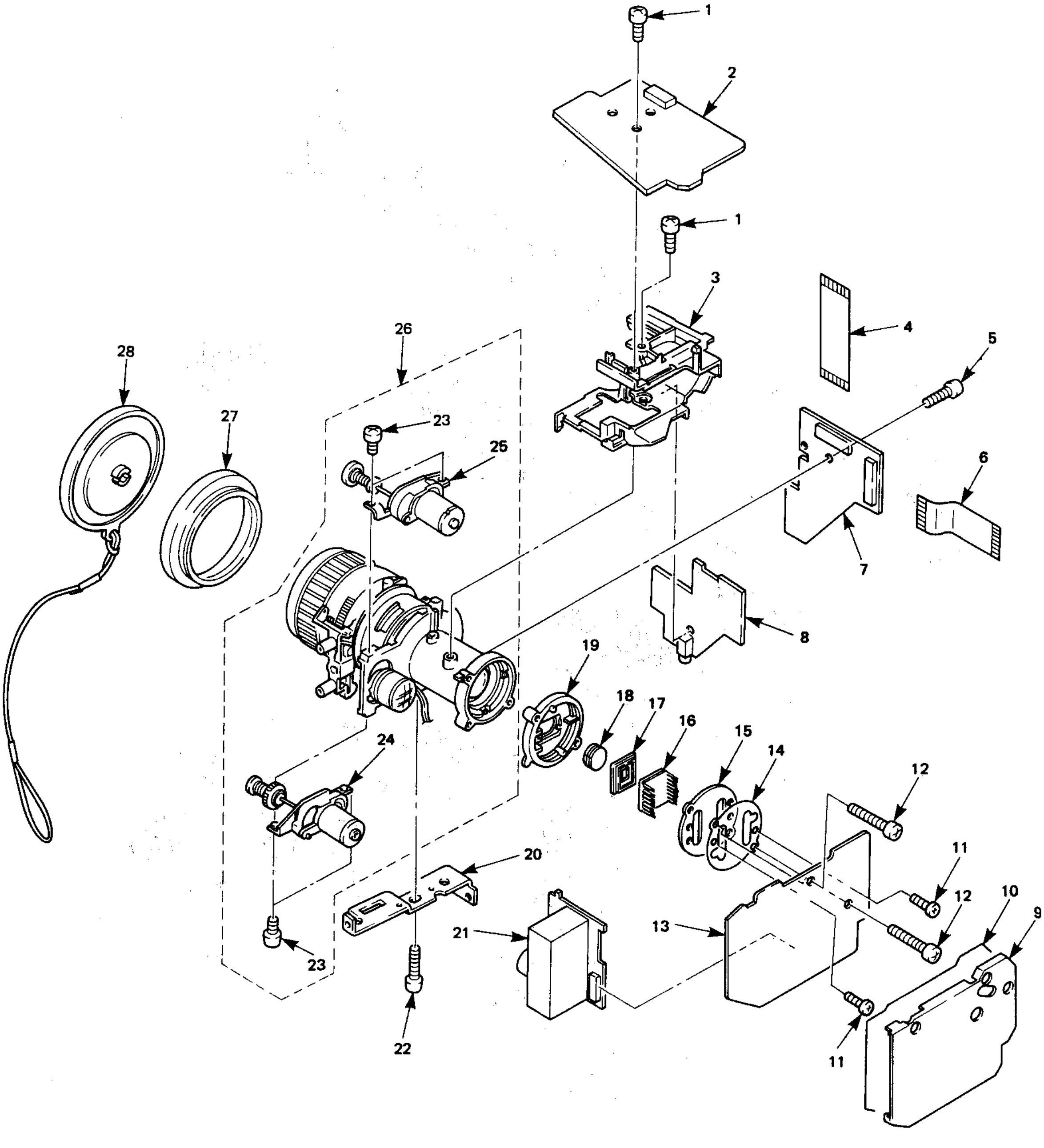
VIEWFINDER

LOCATION	PARTS NO.	DESCRIPTION
1	636 037 9312	CABINET,TOP,VF
2	636 024 2975	SLEEVE
3	636 013 5543	SLIDE KNOB
4	636 014 3777	RING
5	636 013 3204	FRAME
6	636 024 3132	LENS
7	636 013 7424	SHEET
8	636 014 2268	FIXER
9	636 013 7714	HOOD
10	636 024 3200	COMPL,SLEEVE
11	636 035 0885	INSULATER
12	636 039 9549	HOLDER
13	636 030 2938	RING,A
14	636 030 2945	RING,B
15	414 006 2904	CRT M01KGG007WB
16	636 031 4856	YOKE,DEFLECTION
17	636 038 1919	CORD,ASSY
18	636 038 1650	COMPL,PCB,VF-1
19	636 038 1896	SHIELD
20	636 037 9565	COMPL,PCB,VF-1
21	411 022 7708	SCR S-TPG PAN 2X5
22	636 022 4971	SPRING
23	636 023 1443	CLAMP
24	636 038 6396	COMPL,CABINET,BOTTOM,VF
25	411 125 5809	SCR TPG PAN PCS 1.7X8
26	636 022 5091	GUIDE
27	636 022 4766	HOLDER
28	636 022 4773	CAP
29	412 033 8609	SPECIAL SCREW
30	636 022 5084	BUSH
31	636 022 4933	SPACER
32	636 025 5005	ASSY,BRACKET
33	636 024 7932	ADHESIVE



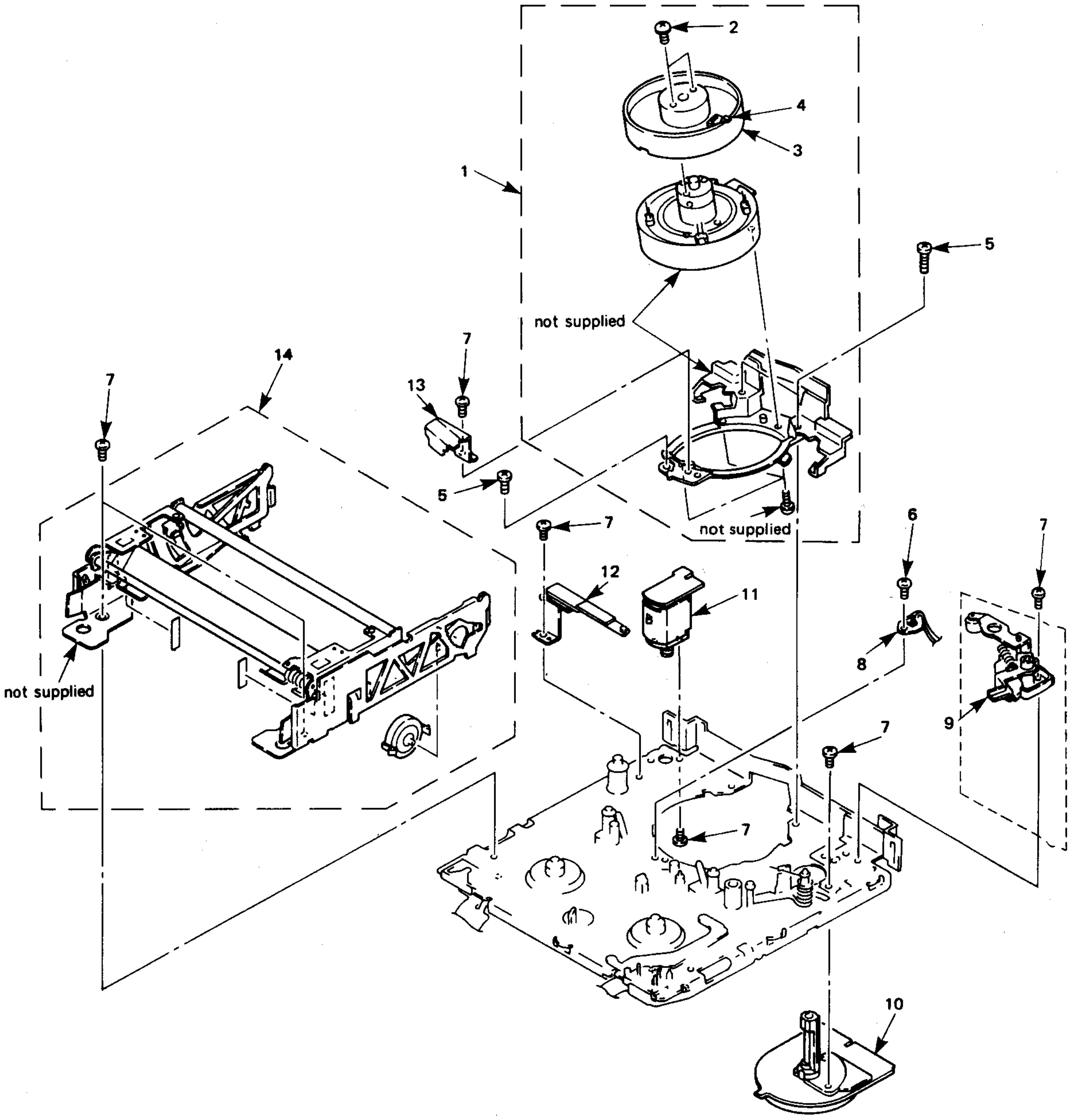
CAMERA

LOCATION	PARTS NO.	DESCRIPTION
1	411 025 4209	SCR S-TPG BIN 2X6
2	636 037 7721	COMPL,PCB,TC-1
3	636 024 7758	HOLDER
4	636 026 5509	FFC 30 12
5	411 025 3905	SCR S-TPG BIN 2X5
6	636 038 7867	FFC 80 14
7	636 037 5802	COMPL,PCB,DM-1
8	636 037 5796	COMPL,PCB,AD-1
9	636 037 9589	SHIELD,CA1,CCD
10	636 038 3302	INSULATOR
11	411 002 4901	SCP PAN 2X4
12	411 021 0205	SCR S-TPG BIN 2X12
13	636 037 7707	COMPL,PCB,CA-1
14	636 034 0701	INSULATOR
15	636 037 1491	BASE
16	409 263 7106	IC ICX045BKA-6,CCD
17	636 034 0725	SPACER
18	636 035 2162	OPTICAL FILTER
19	636 037 1484	HOLDER
20	636 024 7659	BRACKET
21	636 037 7714	COMPL,PCB,CA-2
22	411 025 4308	SCR S-TPG BIN 2X6
23	411 020 0800	SCR PAN PCS 1.7X4
24	636 027 1173	MOTOR,ZOOM
25	636 027 1166	MOTOR,FOCUS
26	636 037 9572	ASSY,LENS
27	636 024 3392	HOOD,LENS
28	636 024 3484	CAP,LENS



MECHANISM 1

LOCATION	PARTS NO.	DESCRIPTION
1	636 038 8710	DRUM,DGU-64A-R
2	636 023 0750	SCREW
3	636 038 8734	UPPER DRUM,DGR-64-R
4	636 038 9489	HIT CHIP (70)
5	411 099 9209	SCR PAN PCS 2X6
6	636 038 9960	SCREW M1.4X1.8
7	636 038 9977	+P2X3 CR-N
8	636 038 9045	DEW SENSOR
9	636 038 8659	HC ROLLER COMPL
10	636 038 9526	DC MOTOR U-22A
11	636 038 8666	LOADING MOTOR ASSY
12	636 038 8918	JIG EARTH ASSY
13	636 038 9380	GUARD/GUIDE
14	636 038 8956	CASSETTE COMPARTMENT (N)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not supplied
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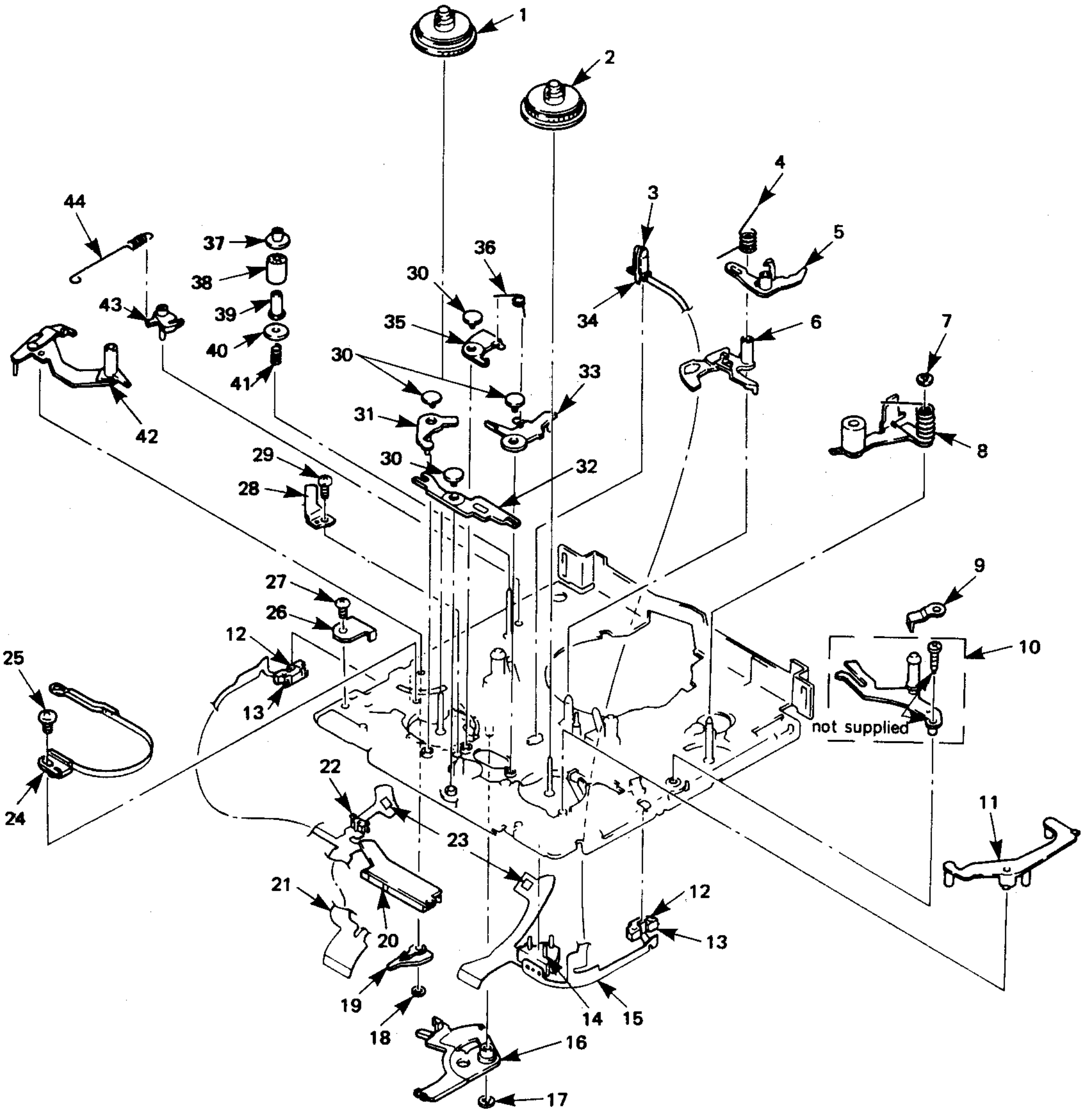
9
not supplied
7
7
10

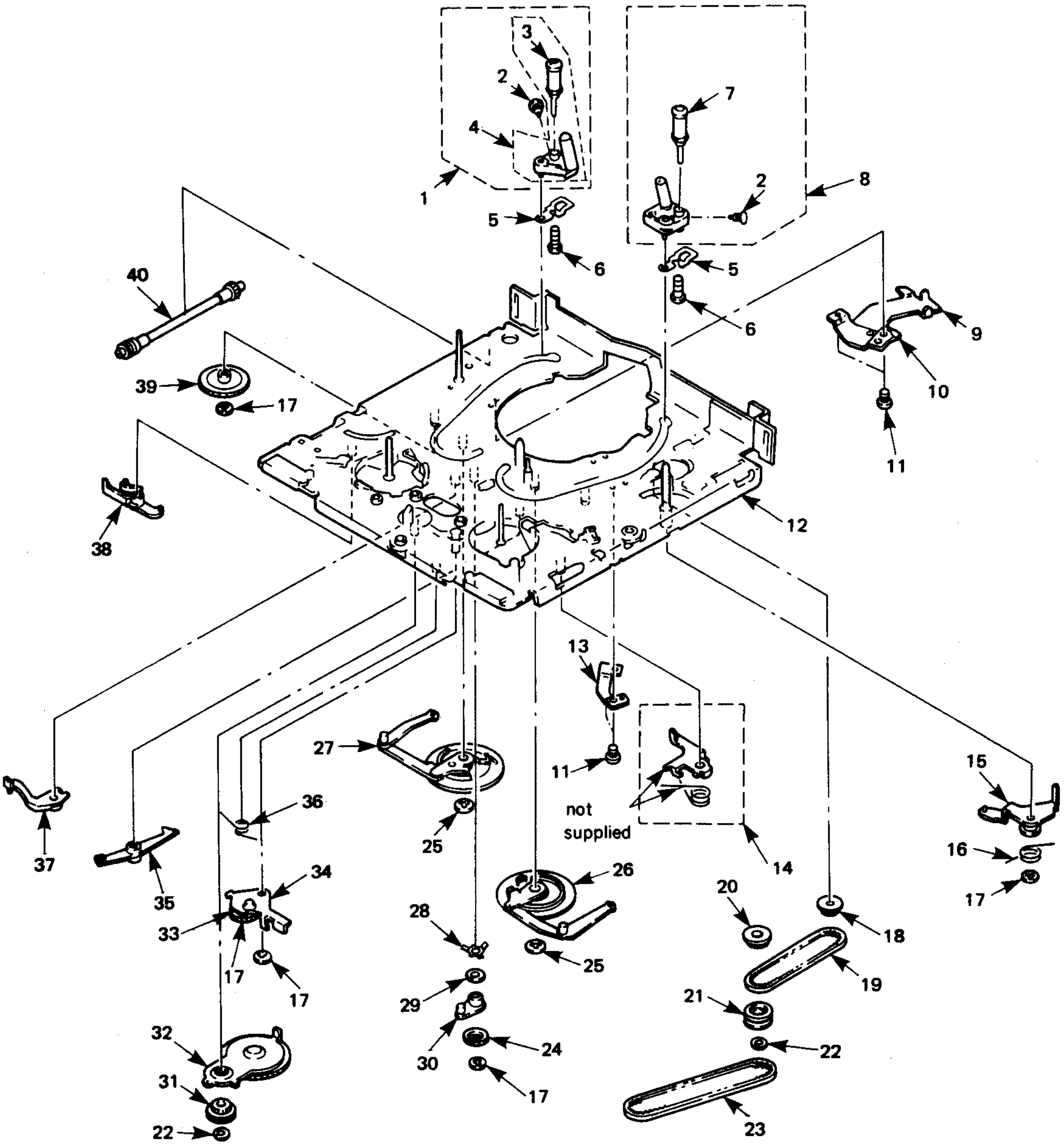
MECHANISM 2

LOCATION	PARTS NO.	DESCRIPTION
1	636 038 8840	REELPLATE ASSY,S
2	636 038 8857	T REELPLATE ASSY
3	636 021 9410	GL452S
4	636 038 9182	SPRING/COIL (RK)
5	636 038 9359	ARM/RK STOPPER
6	636 038 9403	STOPPER/RK
7	636 021 8260	WASHER (1.5),STOPPER
8	636 038 8680	PINCH ARM COMPL
9	636 038 9281	SPRING/PLATE TG7
10	636 038 8949	TG7 ARM ASSY
11	636 038 9311	ARM/LB OFF
12	636 038 9397	HOLDER SENSOR
13	636 038 9519	EE-TP109
OR	636 038 9502	SPI-315-25-CD
14	636 038 9014	PUSH SWITCH
15	636 038 9038	F-PCB FP-90
16	636 038 8901	SW LEVER ASSY
17	636 038 9106	WASHER
18	636 038 9052	WASHER
19	636 038 8864	TENTION LEGULATOR STOPPER
20	636 038 9007	SWITCH,SLIDE
21	636 038 9021	F-PCB FP-89
22	636 038 8994	SWITCH
23	636 038 9496	TLP907-0
24	636 038 8888	TENTION LEGULATOR BAND
25	636 038 9977	+P2X3 CR-N
26	636 038 9427	PUSH PLATE,SWITCH
27	636 038 9984	SCREW +P1.4X1.8
28	636 038 9113	PUSH PLATE/TL
29	636 038 9960	SCREW M1.4X1.8
30	636 038 9175	PIN/JIG PUSH
31	636 038 9120	BRAKE/LB
32	636 038 9137	LEVER/LB
33	636 038 9335	BRAKE/T
34	636 038 9298	HOLDER/LED
35	636 038 9328	BRAKE/S
36	636 038 9205	SPRING/COIL
37	636 038 9243	FLANGE/TG2 UPPER
38	636 038 9236	ROLLER/TG2
39	636 038 9250	SLEEVE/TG2
40	636 038 9229	FLANGE/TG2-LOWER
41	636 038 9267	SPRING/COIL
42	636 038 8932	TENTION LEGULATOR ARM
43	636 038 9366	ARM/ADJUST
44	636 038 9434	SPRING



MECHANISM 3

LOCATION	PARTS NO.	DESCRIPTION
1	636 038 8642	COASTER(LEFT)COMPL
2	636 038 9946	SCREW M1.4
3	636 038 8796	ROLLER ASSY,GUIDE U
4	636 038 8772	COASTER(LEFT)ASSY
5	636 038 9441	PLATE SPRING,COASTER
6	636 038 9953	SCREW M1.4X4
7	636 038 8802	GUIDE ROLLER ASSY
8	636 038 8673	COASTER RIGHT ASSY
9	636 038 8970	RAINFORCEMENT SS ASSY
10	636 038 9410	PROTECTOR
11	636 038 9960	SCREW M1.4X1.8
12	636 038 8895	MECHA CHASSIS ASSY
13	636 038 9090	RAINFORCEMENT TT
14	636 038 8758	BRAKE ASSY(TS)
15	636 038 8987	SUB ARM ASSY
16	636 038 9274	SPRING/PINCH ROAD
17	636 038 9106	WASHER
18	636 038 8741	GEAR ASSY,CONNECTION
19	636 038 9373	BELT TIMING (S)
20	636 038 8765	PULLY ASSY,UPPER
21	636 038 9458	RELAY PULLY(LOWER)
22	636 038 9052	WASHER
23	636 038 9465	TIMING BELT(L)
24	636 038 9151	UL GEAR
25	636 021 8260	WASHER(1.5),STOPPER
26	636 038 8833	DRIVE GEAR ASSY
27	636 038 8826	DRIVE GEAR ASSY
28	636 038 9212	SPRING/LB PLATE
29	636 038 9083	POLY WASHER
30	636 038 9168	UL ARM
31	636 038 8871	RC GEAR ASSY
32	636 038 8925	RK GEAR ASSY
33	636 038 9076	POLY WASHER
34	636 038 8697	LB GEAR COMPL (N)
35	636 038 9144	ARM/BRAKE OFF
36	636 038 9199	SPRING/COIL (LB)
37	636 038 9342	BRAKE/UL
38	636 038 9304	LEVER/EJECT
39	636 038 9472	FOIL GEAR
40	636 038 8963	WORM ASSY



ELECTRICAL PARTS

NOTE;

*Materials of Capacitors and Resistors are abbreviated as follows;

Resistors

MT-FILE	Metal Film Resistor
MT-GLAZE	Metal Glaze Resistor
OXIDE-MT	Oxide Metal Film Resistor

Capacitors

MT-POLYEST	Metallized Polyester Capacitor
MT-COMPO	Metallized Composite Capacitor
TA-SOLID	Tantalum Solid Capacitor
AL-SOLID	Aluminum Solid Capacitor
NP-ELECT	Non-Polarized Electrolytic Capacitor
OS-SOLID	Aluminum Solid Capacitors with Organic Semiconductive Electrolytic Capacitor
DL-ELECT	Double Layered Electrolytic Capacitor

*Tolerance of Capacitor(10pF over) and Resistor are noted with follow symboles.

F ············ ±1%　G ············ ±2%　J ············ ±5%　K ············ ±10%
M ············ ±20%　N ············ ±30%　Z ············ +80% ~ −20%　D ············ ±0.5%

LOCATION	PARTS NO.	DESCRIPTION			
COMPL.PCB.VD-1					
COMPL.NO.	636 037 5789				
	636 037 9947	SHIELD PLATE			
	636 037 9954	SHIELD PLATE			
	636 025 5012	ASSY.PLATE SPRING			
	636 028 1288	HOLDER			
B1001 ⚠	636 037 7332	UNIT.DC-DC CONVERTER			
C1001	403 068 0409	CERAMIC	0.1U	Z	25V
OR	403 215 3109	CERAMIC	0.1U	Z	16V
OR	403 109 7909	CERAMIC	0.1U	Z	25V
C1002	403 014 9203	CERAMIC	180P	J	50V
OR	403 108 9102	CERAMIC	180P	J	50V
C1003	403 033 4500	CERAMIC	82P	J	50V
OR	403 108 8808	CERAMIC	82P	J	50V
C1004	403 196 3200	CERAMIC	0.47U	Z	25V
OR	403 236 0200	CERAMIC	0.47U	Z	25V
C1005	403 152 9806	ELECT	10U	M	16V
OR	403 162 4709	ELECT	10U	M	16V
C1006	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1007	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1008	403 067 9304	CERAMIC	0.01U	K	25V
OR	403 069 5601	CERAMIC	0.01U	K	50V
OR	403 069 6004	CERAMIC	0.01U	K	50V
C1009	403 152 9806	ELECT	10U	M	16V
OR	403 162 4709	ELECT	10U	M	16V
C1010	403 114 5600	TA-SOLID	3.3U	M	6.3V
OR	403 167 0201	TA-SOLID	3.3U	M	6.3V
C1011	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1012	403 152 9806	ELECT	10U	M	16V
OR	403 162 4709	ELECT	10U	M	16V
C1013	403 114 5600	TA-SOLID	3.3U	M	6.3V
OR	403 167 0201	TA-SOLID	3.3U	M	6.3V
C1014	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1015	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1016	403 152 9806	ELECT	10U	M	16V
OR	403 162 4709	ELECT	10U	M	16V
C1017	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1020	403 134 7400	CERAMIC	1U	Z	16V
OR	403 176 3200	CERAMIC	1U	Z	25V
OR	403 236 1009	CERAMIC	1U	Z	16V
C1021	403 196 3200	CERAMIC	0.47U	Z	25V
C1021	403 236 0200	CERAMIC	0.47U	Z	25V
C1022	403 152 9806	ELECT	10U	M	16V
OR	403 162 4709	ELECT	10U	M	16V
C1023	403 091 0407	TA-SOLID	1U	M	16V
OR	403 167 0607	TA-SOLID	1U	M	16V
C1024	403 038 6707	ELECT	220U	M	6.3V
C1025	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1026	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1027	403 014 3409	CERAMIC	18P	J	50V
OR	403 014 4802	CERAMIC	18P	J	50V
C1028	403 130 3604	CERAMIC	0.047U	K	25V
OR	403 130 3109	CERAMIC	0.047U	K	50V
C1029	403 068 0409	CERAMIC	0.1U	Z	25V
OR	403 215 3109	CERAMIC	0.1U	Z	16V
OR	403 109 7909	CERAMIC	0.1U	Z	25V
C1030	403 068 0409	CERAMIC	0.1U	Z	25V
OR	403 215 3109	CERAMIC	0.1U	Z	16V
OR	403 109 7909	CERAMIC	0.1U	Z	25V
C1031	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1032	403 024 7107	CERAMIC	390P	J	50V
OR	403 153 2400	CERAMIC	390P	J	50V
C1033	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1035	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1036	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1037	403 152 9806	ELECT	10U	M	16V
OR	403 162 4709	ELECT	10U	M	16V
C1038	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1039	403 023 4404	CERAMIC	330P	J	50V
OR	403 023 5203	CERAMIC	330P	J	50V
C1040	403 024 7107	CERAMIC	390P	J	50V
OR	403 153 2400	CERAMIC	390P	J	50V
C1041	403 152 9806	ELECT	10U	M	16V
OR	403 162 4709	ELECT	10U	M	16V
C1042	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1043	403 134 7400	CERAMIC	1U	Z	16V
OR	403 176 3200	CERAMIC	1U	Z	25V
OR	403 236 1009	CERAMIC	1U	Z	16V
C1046	403 134 7400	CERAMIC	1U	Z	16V
OR	403 176 3200	CERAMIC	1U	Z	25V
OR	403 236 1009	CERAMIC	1U	Z	16V
C1047	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V

LOCATION	PARTS NO.	DESCRIPTION			
C1054	403 026 2803	CERAMIC	47P	J	50V
OR	403 108 8600	CERAMIC	47P	J	50V
C1056	403 010 8507	CERAMIC	12P	J	50V
OR	403 011 0104	CERAMIC	12P	J	50V
C1057	403 028 4102	CERAMIC	56P	J	50V
OR	403 028 6007	CERAMIC	56P	J	50V
C1058	403 028 4102	CERAMIC	56P	J	50V
OR	403 028 6007	CERAMIC	56P	J	50V
C1059	403 010 8507	CERAMIC	12P	J	50V
OR	403 011 0104	CERAMIC	12P	J	50V
C1060	403 152 9608	ELECT	47U	M	4V
OR	403 162 3900	ELECT	47U	M	4V
C1061	403 068 0409	CERAMIC	0.1U	Z	25V
OR	403 215 3109	CERAMIC	0.1U	Z	16V
OR	403 109 7909	CERAMIC	0.1U	Z	25V
C1062	403 013 3004	CERAMIC	150P	J	50V
OR	403 108 9003	CERAMIC	150P	J	50V
C1063	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1064	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1065	403 026 2803	CERAMIC	47P	J	50V
OR	403 108 8600	CERAMIC	47P	J	50V
C1066	403 024 2102	CERAMIC	39P	J	50V
OR	403 024 3505	CERAMIC	39P	J	50V
C1067	403 152 9608	ELECT	47U	M	4V
OR	403 162 3900	ELECT	47U	M	4V
C1069	403 032 5300	CERAMIC	8P	C	50V
OR	403 032 6604	CERAMIC	8P	C	50V
C1070	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1072	403 014 9203	CERAMIC	180P	J	50V
OR	403 108 9102	CERAMIC	180P	J	50V
C1073	403 010 5001	CERAMIC	110P	J	50V
OR	403 153 2202	CERAMIC	110P	J	50V
C1074	403 009 5708	CERAMIC	100P	J	50V
OR	403 009 7009	CERAMIC	100P	J	50V
C1075	403 011 4904	CERAMIC	120P	J	50V
OR	403 108 8907	CERAMIC	120P	J	50V
C1076	403 013 3004	CERAMIC	150P	J	50V
OR	403 108 9003	CERAMIC	150P	J	50V
C1078	403 152 9806	ELECT	10U	M	16V
OR	403 162 4709	ELECT	10U	M	16V
C1081	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1082	403 196 3200	CERAMIC	0.47U	Z	25V
OR	403 236 0200	CERAMIC	0.47U	Z	25V
C1083	403 014 3409	CERAMIC	18P	J	50V
OR	403 014 4802	CERAMIC	18P	J	50V
C1084	403 014 3409	CERAMIC	18P	J	50V
OR	403 014 4802	CERAMIC	18P	J	50V
C1092	403 023 4404	CERAMIC	330P	J	50V
OR	403 023 5203	CERAMIC	330P	J	50V
C1101	403 091 0407	TA-SOLID	1U	M	16V
OR	403 167 0607	TA-SOLID	1U	M	16V
C1102	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1103	403 114 5600	TA-SOLID	3.3U	M	6.3V
OR	403 167 0201	TA-SOLID	3.3U	M	6.3V
C1104	403 068 0409	CERAMIC	0.1U	Z	25V
OR	403 215 3109	CERAMIC	0.1U	Z	16V
OR	403 109 7909	CERAMIC	0.1U	Z	25V
C1105	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1108	403 068 0409	CERAMIC	0.1U	Z	25V
OR	403 215 3109	CERAMIC	0.1U	Z	16V
OR	403 109 7909	CERAMIC	0.1U	Z	25V
C1109	403 114 5600	TA-SOLID	3.3U	M	6.3V
OR	403 167 0201	TA-SOLID	3.3U	M	6.3V
C1110	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1111	403 114 5600	TA-SOLID	3.3U	M	6.3V
OR	403 167 0201	TA-SOLID	3.3U	M	6.3V
C1112	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1114	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1115	403 152 9707	ELECT	22U	M	6.3V
OR	403 162 4006	ELECT	22U	M	6.3V
C1116	403 033 4500	CERAMIC	82P	J	50V
OR	403 108 8808	CERAMIC	82P	J	50V
C1119	403 009 5708	CERAMIC	100P	J	50V
OR	403 009 7009	CERAMIC	100P	J	50V
C1120	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1121	403 114 5600	TA-SOLID	3.3U	M	6.3V
OR	403 167 0201	TA-SOLID	3.3U	M	6.3V
C1122	403 033 4500	CERAMIC	82P	J	50V
OR	403 108 8808	CERAMIC	82P	J	50V
C1123	403 018 0503	CERAMIC	22P	J	50V
OR	403 018 2408	CERAMIC	22P	J	50V
C1124	403 033 4500	CERAMIC	82P	J	50V
OR	403 108 8808	CERAMIC	82P	J	50V
C1125	403 033 4500	CERAMIC	82P	J	50V
OR	403 108 8808	CERAMIC	82P	J	50V
C1126	403 010 8507	CERAMIC	12P	J	50V
OR	403 011 0104	CERAMIC	12P	J	50V
C1201	403 114 5600	TA-SOLID	3.3U	M	6.3V
OR	403 167 0201	TA-SOLID	3.3U	M	6.3V
C1202	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1203	403 114 5600	TA-SOLID	3.3U	M	6.3V
OR	403 167 0201	TA-SOLID	3.3U	M	6.3V
C1204	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1205	403 152 9608	ELECT	47U	M	4V
OR	403 162 3900	ELECT	47U	M	4V
C1208	403 091 0407	TA-SOLID	1U	M	16V
OR	403 167 0607	TA-SOLID	1U	M	16V
C1209	403 031 2102	CERAMIC	680P	J	50V
OR	403 164 7807	CERAMIC	680P	J	50V
C1211	403 091 0407	TA-SOLID	1U	M	16V
OR	403 167 0607	TA-SOLID	1U	M	16V
C1212	403 068 2007	CERAMIC	0.022U	K	25V
OR	403 072 1607	CERAMIC	0.022U	M	50V
C1213	403 167 0508	TA-SOLID	0.68U	M	16V
C1214	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1215	403 114 5600	TA-SOLID	3.3U	M	6.3V
OR	403 167 0201	TA-SOLID	3.3U	M	6.3V
C1218	403 067 9304	CERAMIC	0.01U	K	25V
OR	403 069 5601	CERAMIC	0.01U	K	50V
OR	403 069 6004	CERAMIC	0.01U	K	50V
C1219	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1221	403 014 3409	CERAMIC	18P	J	50V
OR	403 014 4802	CERAMIC	18P	J	50V
C1226	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1227	403 013 3004	CERAMIC	150P	J	50V
OR	403 108 9003	CERAMIC	150P	J	50V
C1241	403 069 1702	CERAMIC	1000P	K	50V
OR	403 069 2105	CERAMIC	1000P	K	50V
C1242	403 020 0409	CERAMIC	27P	J	50V
OR	403 020 1604	CERAMIC	27P	J	50V
C1243	403 067 9304	CERAMIC	0.01U	K	25V
OR	403 069 5601	CERAMIC	0.01U	K	50V
OR	403 069 6004	CERAMIC	0.01U	K	50V

LOCATION	PARTS NO.	DESCRIPTION		
C1244	403 068 0409	CERAMIC	0.1U Z	25V
OR	403 215 3109	CERAMIC	0.1U Z	16V
OR	403 109 7909	CERAMIC	0.1U Z	25V
C1260	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1280	403 009 5708	CERAMIC	100P J	50V
OR	403 009 7009	CERAMIC	100P J	50V
C1281	403 018 7403	CERAMIC	220P J	50V
OR	403 108 9201	CERAMIC	220P J	50V
C1282	403 028 4102	CERAMIC	56P J	50V
OR	403 028 6007	CERAMIC	56P J	50V
C1283	403 030 6903	CERAMIC	68P J	50V
OR	403 108 8709	CERAMIC	68P J	50V
C1284	403 011 4904	CERAMIC	120P J	50V
OR	403 108 8907	CERAMIC	120P J	50V
C1290	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1301	403 068 0409	CERAMIC	0.1U Z	25V
OR	403 215 3109	CERAMIC	0.1U Z	16V
OR	403 109 7909	CERAMIC	0.1U Z	25V
C1302	403 020 5503	CERAMIC	270P J	50V
OR	403 153 2301	CERMAIC	270P J	50V
C1303	403 032 2309	CERAMIC	75P J	50V
OR	403 153 2103	CERAMIC	75P J	50V
C1304	403 071 8102	CERAMIC	2200P K	50V
OR	403 071 8508	CERAMIC	2200P K	50V
C1306	403 022 8205	CERAMIC	33P J	50V
OR	403 023 0109	CERAMIC	33P J	50V
C1307	403 020 5503	CERAMIC	270P J	50V
OR	403 153 2301	CERMAIC	270P J	50V
C1309	403 068 0409	CERAMIC	0.1U Z	25V
OR	403 215 3109	CERAMIC	0.1U Z	16V
OR	403 109 7909	CERAMIC	0.1U Z	25V
C1320	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1321	403 071 8102	CERAMIC	2200P K	50V
OR	403 071 8508	CERAMIC	2200P K	50V
C1322	403 020 0409	CERAMIC	27P J	50V
OR	403 020 1604	CERAMIC	27P J	50V
C1323	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1325	403 008 7406	CERAMIC	10P D	50V
OR	403 008 9202	CERAMIC	10P D	50V
C1326	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1327	403 032 5300	CERAMIC	8P C	50V
OR	403 032 6604	CERAMIC	8P C	50V
C1328	403 020 0409	CERAMIC	27P J	50V
OR	403 020 1604	CERAMIC	27P J	50V
C1329	403 068 0409	CERAMIC	0.1U Z	25V
OR	403 215 3109	CERAMIC	0.1U Z	16V
OR	403 109 7909	CERAMIC	0.1U Z	25V
C1330	403 020 0409	CERAMIC	27P J	50V
OR	403 020 1604	CERAMIC	27P J	50V
C1340	403 026 2803	CERAMIC	47P J	50V
OR	403 108 8600	CERAMIC	47P J	50V
C1341	403 014 9203	CERAMIC	180P J	50V
OR	403 108 9102	CERAMIC	180P J	50V
C1342	403 011 4904	CERAMIC	120P J	50V
OR	403 108 8907	CERAMIC	120P J	50V
C1343	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1344	403 012 6808	CERAMIC	15P J	50V

LOCATION	PARTS NO.	DESCRIPTION		
C1344	403 012 8406	CERAMIC	15P J	50V
C1345	403 024 2102	CERAMIC	39P J	50V
OR	403 024 3505	CERAMIC	39P J	50V
C1347	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1360	403 073 0005	CERAMIC	3300P K	50V
OR	403 108 7504	CERAMIC	3300P K	50V
C1361	403 068 0409	CERAMIC	0.1U Z	25V
OR	403 215 3109	CERAMIC	0.1U Z	16V
OR	403 109 7909	CERAMIC	0.1U Z	25V
C1362	403 032 2309	CERAMIC	75P J	50V
OR	403 153 2103	CERAMIC	75P J	50V
C1363	403 026 2803	CERAMIC	47P J	50V
OR	403 108 8600	CERAMIC	47P J	50V
C1364	403 068 0409	CERAMIC	0.1U Z	25V
OR	403 215 3109	CERAMIC	0.1U Z	16V
OR	403 109 7909	CERAMIC	0.1U Z	25V
C1371	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1372	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1401	403 069 1702	CERAMIC	1000P K	50V
OR	403 069 2105	CERAMIC	1000P K	50V
C1402	403 152 9707	ELECT	22U M	6.3V
OR	403 162 4006	ELECT	22U M	6.3V
C1403	403 073 0005	CERAMIC	3300P K	50V
OR	403 108 7504	CERAMIC	3300P K	50V
C1404	403 043 0202	ELECT	220U M	16V
C1451	403 134 7400	CERAMIC	1U Z	16V
OR	403 176 3200	CERAMIC	1U Z	25V
OR	403 236 1009	CERAMIC	1U Z	16V
C1453	403 134 7400	CERAMIC	1U Z	16V
OR	403 176 3200	CERAMIC	1U Z	25V
OR	403 236 1009	CERAMIC	1U Z	16V
C1501	403 069 1702	CERAMIC	1000P K	50V
OR	403 069 2105	CERAMIC	1000P K	50V
C1502	403 069 1702	CERAMIC	1000P K	50V
OR	403 069 2105	CERAMIC	1000P K	50V
C1551	403 011 4904	CERAMIC	120P J	50V
OR	403 108 8907	CERAMIC	120P J	50V
C1552	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1553	403 069 1702	CERAMIC	1000P K	50V
OR	403 069 2105	CERAMIC	1000P K	50V
C1554	403 068 0409	CERAMIC	0.1U Z	25V
OR	403 215 3109	CERAMIC	0.1U Z	16V
OR	403 109 7909	CERAMIC	0.1U Z	25V
C1555	403 033 4500	CERAMIC	82P J	50V
OR	403 108 8808	CERAMIC	82P J	50V
C1556	403 067 9304	CERAMIC	0.01U K	25V
OR	403 069 5601	CERAMIC	0.01U K	50V
OR	403 069 6004	CERAMIC	0.01U K	50V
C1601	403 114 5600	TA-SOLID	3.3U M	6.3V
OR	403 167 0201	TA-SOLID	3.3U M	6.3V
C1602	403 069 1702	CERAMIC	1000P K	50V
OR	403 069 2105	CERAMIC	1000P K	50V
C1603	403 010 5001	CERAMIC	110P J	50V
OR	403 153 2202	CERAMIC	110P J	50V
C1604	403 069 1702	CERAMIC	1000P K	50V
OR	403 069 2105	CERAMIC	1000P K	50V
C1605	403 192 0207	TA-SOLID	4.7U M	6.3V
OR	403 158 7608	TA-SOLID	4.7U M	6.3V
C1606	403 024 7107	CERAMIC	390P J	50V
OR	403 153 2400	CERAMIC	390P J	50V
C1609	403 008 9202	CERAMIC	10P D	50V

LOCATION	PARTS NO.	DESCRIPTION
C1609	403 008 7406	CERAMIC 10P D 50V
C1610	403 012 6808	CERAMIC 15P J 50V
OR	403 012 8406	CERAMIC 15P J 50V
C1611	403 114 5600	TA-SOLID 3.3U M 6.3V
OR	403 167 0201	TA-SOLID 3.3U M 6.3V
C1612	403 069 1702	CERAMIC 1000P K 50V
OR	403 069 2105	CERAMIC 1000P K 50V
C1613	403 069 1702	CERAMIC 1000P K 50V
OR	403 069 2105	CERAMIC 1000P K 50V
C1614	403 069 1702	CERAMIC 1000P K 50V
OR	403 069 2105	CERAMIC 1000P K 50V
C1615	403 020 0409	CERAMIC 27P J 50V
OR	403 020 1604	CERAMIC 27P J 50V
C1620	403 011 4904	CERAMIC 120P J 50V
OR	403 108 8907	CERAMIC 120P J 50V
C1801	403 028 4102	CERAMIC 56P J 50V
OR	403 028 6007	CERAMIC 56P J 50V
C1802	403 011 4904	CERAMIC 120P J 50V
OR	403 108 8907	CERAMIC 120P J 50V
C1803	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C1804	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C1805	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1901	403 192 0207	TA-SOLID 4.7U M 6.3V
OR	403 158 7608	TA-SOLID 4.7U M 6.3V
C1902	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1903	403 192 0207	TA-SOLID 4.7U M 6.3V
OR	403 158 7608	TA-SOLID 4.7U M 6.3V
C1904	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1905	403 192 0207	TA-SOLID 4.7U M 6.3V
OR	403 158 7608	TA-SOLID 4.7U M 6.3V
C1906	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1907	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C1908	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C1909	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C1910	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1911	403 192 0207	TA-SOLID 4.7U M 6.3V
OR	403 158 7608	TA-SOLID 4.7U M 6.3V
C1912	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1914	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C1915	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1916	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V

LOCATION	PARTS NO.	DESCRIPTION
C1917	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C1918	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1919	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1920	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1921	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1922	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1923	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1924	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C1925	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C1926	403 068 0409	CERAMIC 0.1U Z 25V
OR	403 215 3109	CERAMIC 0.1U Z 16V
OR	403 109 7909	CERAMIC 0.1U Z 25V
C1927	403 067 9304	CERAMIC 0.01U K 25V
OR	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
CN105	636 031 9066	JACK,LANC
CN110	636 037 5963	JACK,DC INPUT
D1001	407 113 5609	DIODE DSH015-TL
D1002	407 113 5609	DIODE DSH015-TL
D1003	407 106 1502	DIODE DCF015-TL
D1005	407 130 4401	DIODE DAN202U-T106
OR	407 106 1601	DIODE DCG015-TL
D1242	407 130 4401	DIODE DAN202U-T106
OR	407 106 1601	DIODE DCG015-TL
D1301	407 113 0505	DIODE 1SS302-TE85L
D1401	407 130 4401	DIODE DAN202U-T106
OR	407 106 1601	DIODE DCG015-TL
D1451	407 113 5609	DIODE DSH015-TL
D1501	407 129 0605	ZENER DIODE MA3082-M-TW
OR	407 057 8902	ZENER DIODE RD8.2MB2
D1502	407 129 0605	ZENER DIODE MA3082-M-TW
OR	407 057 8902	ZENER DIODE RD8.2MB2
D1551	407 130 4401	DIODE DAN202U-T106
OR	407 106 1601	DIODE DCG015-TL
D1552	407 113 0505	DIODE 1SS302-TE85L
D1601	407 113 0505	DIODE 1SS302-TE85L
D1603	407 113 5609	DIODE DSH015-TL
F1401 ⚠	423 018 9801	FUSE 125V 3.15A
IC101	409 268 5701	IC CXA1207AR-T5
OR	409 212 8703	IC CXA1207R-T5
IC111	409 223 6606	IC CXL1506M-T3
IC121	409 212 8802	IC CXA1208R-T3
IC161	409 143 7905	IC CXA1203M-T1
IC191	409 143 7806	IC CXA1202Q-Z
L1001	636 002 8852	RF CHOKE,100UH
OR	636 019 8579	COIL,INDUCTOR 100UH

LOCATION	PARTS NO.	DESCRIPTION
L1002	636 002 8852	RF CHOKE,100UH
OR	636 019 8579	COIL,INDUCTOR 100UH
L1003	636 002 8838	RF CHOKE,22UH
OR	636 019 8647	COIL,INDUCTOR 22UH
L1004	636 027 8806	COIL,INDUCTOR 68UH
L1005	636 002 8838	RF CHOKE,22UH
OR	636 019 8647	COIL,INDUCTOR 22UH
L1023	636 027 8745	COIL,INDUCTOR 39UH
L1024	636 027 8806	COIL,INDUCTOR 68UH
L1025	636 027 8592	COIL,INDUCTOR 100UH
L1026	636 027 8806	COIL,INDUCTOR 68UH
L1027	636 027 8646	COIL,INDUCTOR 18UH
L1028	636 027 8592	COIL,INDUCTOR 100UH
L1071	636 003 2521	HF CHOKE,100UH
L1072	636 003 2514	HF CHOKE,82UH
L1074	636 027 8615	COIL,INDUCTOR 120UH
L1075	636 027 8738	COIL,INDUCTOR 33UH
L1101	636 003 5379	CORE
L1102	636 003 5379	CORE
L1103	636 003 5379	CORE
L1104	636 002 8838	RF CHOKE,22UH
OR	636 019 8647	COIL,INDUCTOR 22UH
L1105	636 003 5379	CORE
L1106	636 027 8769	COIL,INDUCTOR 47UH
L1107	636 027 8769	COIL,INDUCTOR 47UH
L1108	636 027 8769	COIL,INDUCTOR 47UH
L1201	636 002 8838	RF CHOKE,22UH
OR	636 019 8647	COIL,INDUCTOR 22UH
L1204	636 027 8592	COIL,INDUCTOR 100UH
L1208	636 027 8615	COIL,INDUCTOR 120UH
L1209	636 027 8592	COIL,INDUCTOR 100UH
L1301	636 002 8845	RF CHOKE,47UH
OR	636 019 8746	COIL,INDUCTOR 47UH
L1302	636 002 8845	RF CHOKE,47UH
OR	636 019 8746	COIL,INDUCTOR 47UH
L1311	636 028 1813	COIL,INDUCTOR 4.7UH
L1312	636 003 3207	HF CHOKE,470UH
L1313	636 027 8738	COIL,INDUCTOR 33UH
L1314	636 003 3184	HF CHOKE,330UH
L1315	636 003 2552	HF CHOKE,180UH
L1321	636 027 8738	COIL,INDUCTOR 33UH
L1322	636 003 2408	HF CHOKE,10UH
L1340	636 003 3184	HF CHOKE,330UH
L1341	636 003 2521	HF CHOKE,100UH
L1342	636 028 1844	COIL,INDUCTOR 8.2UH
L1360	636 027 8592	COIL,INDUCTOR 100UH
L1361	636 027 8639	COIL,INDUCTOR 150UH
L1601	636 002 8852	RF CHOKE,100UH
OR	636 019 8579	COIL,INDUCTOR 100UH
L1602	636 027 8745	COIL,INDUCTOR 39UH
L1603	636 028 1844	COIL,INDUCTOR 8.2UH
L1801	636 028 1844	COIL,INDUCTOR 8.2UH
L1802	636 002 8852	RF CHOKE,100UH
OR	636 019 8579	COIL,INDUCTOR 100UH
L1901	636 002 8821	RF CHOKE,10UH
OR	636 019 8555	COIL,INDUCTOR 10UH
L1902	636 002 8821	RF CHOKE,10UH
OR	636 019 8555	COIL,INDUCTOR 10UH
L1903	636 002 8821	RF CHOKE,10UH
OR	636 019 8555	COIL,INDUCTOR 10UH
Q1001	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1002	405 060 7509	TR FMG2-T99
OR	405 089 6002	TR FC108-TL
Q1003	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX

LOCATION	PARTS NO.	DESCRIPTION
Q1004	405 091 4706	TR DTC144WU-T106
Q1005	405 096 1106	TR DTA144EU-T106
OR	405 078 5801	TR 2SA1676-TL
Q1006	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1008	405 077 2207	TR 2SA1622-6-TL
Q1009	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1010	405 077 2207	TR 2SA1622-6-TL
Q1011	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1012	405 077 2207	TR 2SA1622-6-TL
Q1019	405 035 1105	TR FMW1-T99
Q1020	405 077 2207	TR 2SA1622-6-TL
Q1021	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1023	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1024	405 091 4706	TR DTC144WU-T106
Q1025	405 035 1105	TR FMW1-T99
Q1027	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1028	405 077 2207	TR 2SA1622-6-TL
Q1029	405 096 1106	TR DTA144EU-T106
OR	405 078 5801	TR 2SA1676-TL
Q1030	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1070	405 077 2207	TR 2SA1622-6-TL
Q1071	405 077 2207	TR 2SA1622-6-TL
Q1072	405 077 2207	TR 2SA1622-6-TL
Q1073	405 002 4009	TR 2SA1122CETL
OR	405 002 4108	TR 2SA1122-D-TL
Q1074	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1090	405 079 2809	TR IMX1-T109
Q1091	405 077 2207	TR 2SA1622-6-TL
Q1092	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1101	405 077 2207	TR 2SA1622-6-TL
Q1102	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1103	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1104	405 077 2207	TR 2SA1622-6-TL
Q1105	405 077 2207	TR 2SA1622-6-TL
Q1204	405 096 1106	TR DTA144EU-T106
OR	405 078 5801	TR 2SA1676-TL
Q1212	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1241	405 035 1105	TR FMW1-T99
Q1242	405 091 4706	TR DTC144WU-T106
Q1246	405 077 2207	TR 2SA1622-6-TL
Q1265	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1301	405 077 2207	TR 2SA1622-6-TL
Q1302	405 077 2207	TR 2SA1622-6-TL
Q1303	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1304	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1305	405 077 2207	TR 2SA1622-6-TL
Q1319	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1321	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1322	405 096 1106	TR DTA144EU-T106

LOCATION	PARTS NO.	DESCRIPTION
Q1322	405 078 5801	TR 2SA1676-TL
Q1323	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1324	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
Q1325	405 096 1106	TR DTA144EU-T106
OR	405 078 5801	TR 2SA1676-TL
Q1326	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1340	405 077 2207	TR 2SA1622-6-TL
Q1341	405 091 4706	TR DTC144WU-T106
Q1342	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1344	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1360	405 077 2207	TR 2SA1622-6-TL
Q1401	405 008 7707	TR 2SB815-B7
Q1402	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1410	405 008 7707	TR 2SB815-B7
Q1411	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1412	405 008 7707	TR 2SB815-B7
Q1413	405 078 6709	TR 2SC4396-TL
OR	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
Q1451	405 077 2207	TR 2SA1622-6-TL
Q1452	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1551	405 060 7509	TR FMG2-T99
OR	405 089 6002	TR FC108-TL
Q1552	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1554	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
Q1557	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1601	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1604	405 077 2207	TR 2SA1622-6-TL
Q1605	405 096 2400	TR DTC144EU-T106
OR	405 102 5005	TR UN5213-TX
OR	405 078 6709	TR 2SC4396-TL
Q1699	405 078 5801	TR 2SA1676-TL
OR	405 096 1106	TR DTA144EU-T106
Q1801	405 077 2207	TR 2SA1622-6-TL
Q1802	405 077 2207	TR 2SA1622-6-TL
Q1901	405 077 2207	TR 2SA1622-6-TL
Q1902	405 077 3402	TR 2SC4211-6-TL
OR	405 092 4101	TR 2SC4081-R-T106
R1001	401 105 0504	MT-GLAZE 1K JA 1/16W
R1002	401 105 0504	MT-GLAZE 1K JA 1/16W
R1003	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1004	401 105 2102	MT-GLAZE 18K JA 1/16W
R1005	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1006	401 105 5400	MT-GLAZE 47K JA 1/16W
R1007	401 105 5400	MT-GLAZE 47K JA 1/16W
R1008	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1009	401 113 5805	MT-GLAZE 1.1K JA 1/16W
R1010	401 105 0504	MT-GLAZE 1K JA 1/16W
R1012	401 105 0702	MT-GLAZE 100K JA 1/16W
R1013	401 105 5509	MT-GLAZE 470K JA 1/16W
R1015	401 105 1006	MT-GLAZE 1.2K JA 1/16W

LOCATION	PARTS NO.	DESCRIPTION
R1016	401 105 4700	MT-GLAZE 39K JA 1/16W
R1017	401 105 2102	MT-GLAZE 18K JA 1/16W
R1018	401 105 0603	MT-GLAZE 10K JA 1/16W
R1019	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1020	401 105 0504	MT-GLAZE 1K JA 1/16W
R1023	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R1024	401 105 6506	MT-GLAZE 680 JA 1/16W
R1025	401 113 5904	MT-GLAZE 1.3K JA 1/16W
R1026	401 105 5202	MT-GLAZE 470 JA 1/16W
R1027	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1028	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R1029	401 105 4809	MT-GLAZE 390K JA 1/16W
R1030	401 105 0702	MT-GLAZE 100K JA 1/16W
R1036	401 105 6407	MT-GLAZE 68 JA 1/16W
R1037	401 105 4809	MT-GLAZE 390K JA 1/16W
R1039	401 105 0702	MT-GLAZE 100K JA 1/16W
R1040	401 105 4205	MT-GLAZE 33K JA 1/16W
R1041	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1042	401 105 6506	MT-GLAZE 680 JA 1/16W
R1044	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1045	401 105 2904	MT-GLAZE 22K JA 1/16W
R1046	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1047	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1048	401 105 4007	MT-GLAZE 330 JA 1/16W
R1049	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R1050	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1051	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1052	401 105 0603	MT-GLAZE 10K JA 1/16W
R1053	401 164 5304	MT-FILM 270 DU 1/10W
R1054	401 105 4403	MT-GLAZE 39 JA 1/16W
R1055	401 105 2607	MT-GLAZE 22 JA 1/16W
R1056	401 105 0603	MT-GLAZE 10K JA 1/16W
R1057	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R1058	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R1059	401 105 0405	MT-GLAZE 100 JA 1/16W
R1060	401 164 6707	MT-FILM 1K DU 1/10W
R1062	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1063	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1064	401 105 3109	MT-GLAZE 27 JA 1/16W
R1065	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1066	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R1067	401 105 0504	MT-GLAZE 1K JA 1/16W
R1068	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1069	401 105 1600	MT-GLAZE 15K JA 1/16W
R1070	401 105 4700	MT-GLAZE 39K JA 1/16W
R1071	401 105 2904	MT-GLAZE 22K JA 1/16W
R1072	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1073	401 105 5905	MT-GLAZE 560 JA 1/16W
R1074	401 105 6506	MT-GLAZE 680 JA 1/16W
R1075	401 105 6506	MT-GLAZE 680 JA 1/16W
R1076	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R1077	401 105 5905	MT-GLAZE 560 JA 1/16W
R1078	401 105 4502	MT-GLAZE 390 JA 1/16W
R1079	401 105 5202	MT-GLAZE 470 JA 1/16W
R1080	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1081	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1082	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1083	401 105 7305	MT-GLAZE 820 JA 1/16W
R1084	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1085	401 105 2706	MT-GLAZE 220 JA 1/16W
R1088	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R1090	401 105 0603	MT-GLAZE 10K JA 1/16W
R1091	401 105 0603	MT-GLAZE 10K JA 1/16W
R1093	401 105 0603	MT-GLAZE 10K JA 1/16W
R1094	401 105 1105	MT-GLAZE 12K JA 1/16W
R1095	401 105 1105	MT-GLAZE 12K JA 1/16W
R1096	401 105 5400	MT-GLAZE 47K JA 1/16W
R1097	401 105 4205	MT-GLAZE 33K JA 1/16W
R1098	401 105 2805	MT-GLAZE 2.2K JA 1/16W

LOCATION	PARTS NO.	DESCRIPTION
R1099	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R1101	401 105 6100	MT-GLAZE 560K JA 1/16W
R1105	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1106	401 105 7503	MT-GLAZE 82K JA 1/16W
R1107	401 105 0900	MT-GLAZE 120 JA 1/16W
R1108	401 105 4700	MT-GLAZE 39K JA 1/16W
R1109	401 105 2904	MT-GLAZE 22K JA 1/16W
R1110	401 105 5202	MT-GLAZE 470 JA 1/16W
R1111	401 105 0405	MT-GLAZE 100 JA 1/16W
R1112	401 105 0504	MT-GLAZE 1K JA 1/16W
R1113	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1114	401 105 0504	MT-GLAZE 1K JA 1/16W
R1115	401 105 0504	MT-GLAZE 1K JA 1/16W
R1116	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1117	401 105 4700	MT-GLAZE 39K JA 1/16W
R1118	401 105 2904	MT-GLAZE 22K JA 1/16W
R1119	401 105 5202	MT-GLAZE 470 JA 1/16W
R1120	401 105 0405	MT-GLAZE 100 JA 1/16W
R1121	401 105 0504	MT-GLAZE 1K JA 1/16W
R1122	401 105 0504	MT-GLAZE 1K JA 1/16W
R1123	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1124	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1125	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1127	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1129	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1130	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1131	401 105 0504	MT-GLAZE 1K JA 1/16W
R1132	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1134	401 105 6506	MT-GLAZE 680 JA 1/16W
R1135	401 105 6506	MT-GLAZE 680 JA 1/16W
R1136	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1137	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1201	401 105 0504	MT-GLAZE 1K JA 1/16W
R1203	401 164 3102	MT-FILM 100K DU 1/10W
R1205	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1208	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1209	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1210	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1219	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R1221	401 105 5202	MT-GLAZE 470 JA 1/16W
R1222	401 105 7305	MT-GLAZE 820 JA 1/16W
R1224	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1228	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1229	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1234	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1235	401 105 2904	MT-GLAZE 22K JA 1/16W
R1237	401 105 2904	MT-GLAZE 22K JA 1/16W
R1239	401 037 5004	MT-GLAZE 0 ZA 1/10W
R1240	401 105 5202	MT-GLAZE 470 JA 1/16W
R1241	401 105 6506	MT-GLAZE 680 JA 1/16W
R1242	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1243	401 105 8104	MT-GLAZE 56K JA 1/16W
R1244	401 105 4205	MT-GLAZE 33K JA 1/16W
R1245	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1246	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1247	401 105 0603	MT-GLAZE 10K JA 1/16W
R1254	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1256	401 105 5202	MT-GLAZE 470 JA 1/16W
R1259	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1269	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1270	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1279	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1280	401 105 0504	MT-GLAZE 1K JA 1/16W
R1281	401 037 5004	MT-GLAZE 0 ZA 1/10W
R1282	401 105 0504	MT-GLAZE 1K JA 1/16W
R1301	401 105 5202	MT-GLAZE 470 JA 1/16W
R1302	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1304	401 105 0504	MT-GLAZE 1K JA 1/16W
R1305	401 105 0504	MT-GLAZE 1K JA 1/16W
R1306	401 105 5905	MT-GLAZE 560 JA 1/16W
R1307	401 105 4007	MT-GLAZE 330 JA 1/16W
R1310	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1311	401 105 6506	MT-GLAZE 680 JA 1/16W
R1312	401 105 2706	MT-GLAZE 220 JA 1/16W
R1313	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1320	401 105 1105	MT-GLAZE 12K JA 1/16W
R1321	401 105 0603	MT-GLAZE 10K JA 1/16W
R1322	401 105 5202	MT-GLAZE 470 JA 1/16W
R1323	401 105 3208	MT-GLAZE 270 JA 1/16W
R1324	401 105 2706	MT-GLAZE 220 JA 1/16W
R1325	401 105 2706	MT-GLAZE 220 JA 1/16W
R1326	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1327	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1328	401 105 5905	MT-GLAZE 560 JA 1/16W
R1329	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1330	401 105 2102	MT-GLAZE 18K JA 1/16W
R1331	401 105 2102	MT-GLAZE 18K JA 1/16W
R1332	401 105 5905	MT-GLAZE 560 JA 1/16W
R1333	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1334	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1340	401 105 5905	MT-GLAZE 560 JA 1/16W
R1341	401 105 5905	MT-GLAZE 560 JA 1/16W
R1342	401 105 1600	MT-GLAZE 15K JA 1/16W
R1343	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1345	401 105 2904	MT-GLAZE 22K JA 1/16W
R1346	401 105 2904	MT-GLAZE 22K JA 1/16W
R1347	401 105 6506	MT-GLAZE 680 JA 1/16W
R1348	401 105 6506	MT-GLAZE 680 JA 1/16W
R1349	401 105 0405	MT-GLAZE 100 JA 1/16W
R1350	401 105 5905	MT-GLAZE 560 JA 1/16W
R1352	401 105 5905	MT-GLAZE 560 JA 1/16W
R1360	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1361	401 105 0405	MT-GLAZE 100 JA 1/16W
R1362	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1363	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1373	401 164 7407	MT-FILM 1.8K DU 1/10W
R1374	401 164 6707	MT-FILM 1K DU 1/10W
R1375	401 164 5304	MT-FILM 270 DU 1/10W
R1382	401 105 0603	MT-GLAZE 10K JA 1/16W
R1383	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1385	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1401	401 105 5400	MT-GLAZE 47K JA 1/16W
R1402	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1411	401 105 5400	MT-GLAZE 47K JA 1/16W
R1412	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1413	401 105 5400	MT-GLAZE 47K JA 1/16W
R1414	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1450	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1451	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1452	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1453	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1454	401 105 6506	MT-GLAZE 680 JA 1/16W
R1455	401 105 1105	MT-GLAZE 12K JA 1/16W
R1456	401 113 6703	MT-GLAZE 9.1K JA 1/16W
R1457	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1458	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1471	401 105 0702	MT-GLAZE 100K JA 1/16W
R1472	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1473	401 105 0603	MT-GLAZE 10K JA 1/16W
R1551	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R1552	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1553	401 105 6506	MT-GLAZE 680 JA 1/16W
R1554	401 105 2706	MT-GLAZE 220 JA 1/16W
R1555	401 105 5103	MT-GLAZE 47 JA 1/16W
R1556	401 105 6506	MT-GLAZE 680 JA 1/16W
R1557	401 105 6506	MT-GLAZE 680 JA 1/16W
R1558	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1561	401 105 0603	MT-GLAZE 10K JA 1/16W

LOCATION	PARTS NO.	DESCRIPTION
R1602	401 105 0603	MT-GLAZE 10K JA 1/16W
R1603	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R1604	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1606	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1607	401 105 0603	MT-GLAZE 10K JA 1/16W
R1610	401 105 0504	MT-GLAZE 1K JA 1/16W
R1611	401 105 5905	MT-GLAZE 560 JA 1/16W
R1612	401 105 0702	MT-GLAZE 100K JA 1/16W
R1613	401 105 2706	MT-GLAZE 220 JA 1/16W
R1614	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R1615	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1617	401 105 5400	MT-GLAZE 47K JA 1/16W
R1618	401 105 7909	MT-GLAZE 0 ZA 1/16W
R1619	401 105 3406	MT-GLAZE 27K JA 1/16W
R1621	401 105 0702	MT-GLAZE 100K JA 1/16W
R1623	401 105 4205	MT-GLAZE 33K JA 1/16W
R1624	401 105 5400	MT-GLAZE 47K JA 1/16W
R1625	401 105 2904	MT-GLAZE 22K JA 1/16W
R1630	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R1631	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1632	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1633	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1801	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R1802	401 105 4007	MT-GLAZE 330 JA 1/16W
R1803	401 105 5202	MT-GLAZE 470 JA 1/16W
R1804	401 105 2904	MT-GLAZE 22K JA 1/16W
R1805	401 105 3406	MT-GLAZE 27K JA 1/16W
R1901	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1902	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1903	401 105 4700	MT-GLAZE 39K JA 1/16W
R1904	401 105 2904	MT-GLAZE 22K JA 1/16W
R1905	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1906	401 105 5400	MT-GLAZE 47K JA 1/16W
R1907	401 113 7106	MT-GLAZE 24K JA 1/16W
R1908	401 105 4205	MT-GLAZE 33K JA 1/16W
R1909	401 113 8202	MT-GLAZE 51K JA 1/16W
R1910	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1911	401 105 2904	MT-GLAZE 22K JA 1/16W
R1912	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R1913	401 105 4700	MT-GLAZE 39K JA 1/16W
R1914	401 105 2904	MT-GLAZE 22K JA 1/16W
R1915	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R1917	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1918	401 105 0603	MT-GLAZE 10K JA 1/16W
R1920	401 105 5400	MT-GLAZE 47K JA 1/16W
R1921	401 105 0603	MT-GLAZE 10K JA 1/16W
R1922	401 105 0702	MT-GLAZE 100K JA 1/16W
R1923	401 105 0603	MT-GLAZE 10K JA 1/16W
R1924	401 105 0702	MT-GLAZE 100K JA 1/16W
R1925	401 105 5905	MT-GLAZE 560 JA 1/16W
R1927	401 105 7909	MT-GLAZE 0 ZA 1/16W
T1101	636 032 0819	FILTER
T1201	636 032 0840	FILTER
T1202	636 032 0833	FILTER
VR101	636 026 9132	SVR 22K OHM
OR	636 036 2239	VR,SEMI 22K OHM
OR	636 019 7992	SVR 22K OHM
VR102	636 026 9224	SVR 47K OHM
OR	636 036 2352	VR,SEMI 47K OHM
OR	636 019 8074	SVR 47K OHM
VR103	636 026 9224	SVR 47K OHM
OR	636 036 2352	VR,SEMI 47K OHM
OR	636 019 8074	SVR 47K OHM
VR104	636 026 9217	SVR 4.7K OHM
OR	636 036 2345	VR,SEMI 4.7K OHM
OR	636 019 8067	SVR 4.7K OHM
VR105	636 026 9217	SVR 4.7K OHM

LOCATION	PARTS NO.	DESCRIPTION
VR105	636 036 2345	VR,SEMI 4.7K OHM
OR	636 019 8067	SVR 4.7K OHM
VR106	636 026 9200	SVR 470 OHM
OR	636 036 2338	VR,SEMI 470 OHM
OR	636 019 8050	SVR 470 OHM
VR109	636 026 9118	SVR 220 OHM
OR	636 036 2215	VR,SEMI 220 OHM
OR	636 019 7978	SVR 220 OHM
VR111	636 026 9026	SVR 1K OHM
OR	636 036 2093	VR,SEMI 1K OHM
OR	636 019 7893	SVR 1K OHM
VR131	636 026 9026	SVR 1K OHM
OR	636 036 2093	VR,SEMI 1K OHM
OR	636 019 7893	SVR 1K OHM
VR132	636 026 9200	SVR 47K OHM
OR	636 036 2338	VR,SEMI 47K OHM
OR	636 019 8050	SVR 47K OHM
VR134	636 026 9217	SVR 4.7K OHM
OR	636 036 2345	VR,SEMI 4.7K OHM
OR	636 019 8067	SVR 4.7K OHM
X1201	636 028 5743	FILTER
OR	636 025 5265	FILTER
X1202	636 032 5548	CRYSTAL,4.433619MHZ
OR	636 037 1439	CRYSTAL,4.433619MHZ

COMPL,PCB,VD-2

COMPL.NO. 636 037 5819

C2001	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C2002	403 028 4102	CERAMIC 56P J 50V
OR	403 028 6007	CERAMIC 56P J 50V
C2003	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C2004	403 071 8102	CERAMIC 2200P K 50V
OR	403 071 8508	CERAMIC 2200P K 50V
C2005	403 152 8502	ELECT 1U M 50V
OR	403 162 6208	ELECT 1U M 50V
C2006	403 152 9004	ELECT 47U M 6.3V
OR	403 175 4505	ELECT 47U M 6.3V
C2007	403 152 8502	ELECT 1U M 50V
OR	403 162 6208	ELECT 1U M 50V
C2008	403 152 8809	ELECT 100U M 4V
OR	403 175 3102	ELECT 100U M 4V
C2010	403 152 8502	ELECT 1U M 50V
OR	403 162 6208	ELECT 1U M 50V
C2011	403 071 8102	CERAMIC 2200P K 50V
OR	403 071 8508	CERAMIC 2200P K 50V
C2014	403 236 0606	CERAMIC 1U Z 16V
C2015	403 152 9806	ELECT 10U M 16V
OR	403 162 4709	ELECT 10U M 16V
C2016	403 152 8502	ELECT 1U M 50V
OR	403 162 6208	ELECT 1U M 50V
C2017	403 236 0606	CERAMIC 1U Z 16V
C2018	403 018 7403	CERAMIC 220P J 50V
OR	403 108 9201	CERAMIC 220P J 50V
C2019	403 152 9905	ELECT 4.7U M 25V
OR	403 162 5300	ELECT 4.7U M 25V
C2022	403 231 1202	CERAMIC 0.22U K 25V
C2023	403 236 0606	CERAMIC 1U Z 16V
C2025	403 236 0606	CERAMIC 1U Z 16V
C2026	403 152 9905	ELECT 4.7U M 25V
OR	403 162 5300	ELECT 4.7U M 25V
C2028	403 130 3604	CERAMIC 0.047U K 25V
OR	403 230 9407	CERAMIC 0.047U K 25V
C2029	403 130 3604	CERAMIC 0.047U K 25V
OR	403 230 9407	CERAMIC 0.047U K 25V
C2030	403 192 5905	CERAMIC 0.1U K 25V

LOCATION	PARTS NO.	DESCRIPTION
C2030	403 230 9803	CERAMIC 0.1U K 25V
C2031	403 069 5601	CERAMIC 0.01U K 50V
OR	403 069 6004	CERAMIC 0.01U K 50V
C2201	403 026 7501	CERAMIC 470P J 50V
OR	403 108 9300	CERAMIC 470P J 50V
C2301	403 134 7400	CERAMIC 1U Z 16V
CN221	636 029 9092	AV JACK,RCA
D2001	407 129 0605	ZENER DIODE MA3082-M-TW
OR	407 057 8902	ZENER DIODE RD8.2MB2
D2002	407 129 0605	ZENER DIODE MA3082-M-TW
OR	407 057 8902	ZENER DIODE RD8.2MB2
D2301	407 129 0605	ZENER DIODE MA3082-M-TW
OR	407 057 8902	ZENER DIODE RD8.2MB2
D2302	407 142 3805	ZENER DIODE MA3082WA-TX
IC201	409 257 2605	IC LA7454W
OR	409 269 3003	IC LA7454W-V
Q2301	405 092 4101	TR 2SC4081-R-T106
OR	405 077 3402	TR 2SC4211-6-TL
Q2302	405 008 7707	TR 2SB815-B7
R2001	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R2002	401 038 0800	MT-GLAZE 22K JA 1/10W
R2003	401 038 0503	MT-GLAZE 22 JA 1/10W
R2005	401 037 5400	MT-GLAZE 1K JA 1/10W
R2006	401 037 5707	MT-GLAZE 100K JA 1/10W
R2007	401 038 0602	MT-GLAZE 220 JA 1/10W
R2009	401 037 9309	MT-GLAZE 18K JA 1/10W
R2010	401 038 3702	MT-GLAZE 33K JA 1/10W
R2011	401 037 5608	MT-GLAZE 10K JA 1/10W
R2016	401 037 5608	MT-GLAZE 10K JA 1/10W
R2017	401 165 0209	MT-FILM 22K DU 1/10W
R2018	401 038 3900	MT-GLAZE 3.3M JA 1/10W
R2019	401 164 8800	MT-FILM 6.8K DU 1/10W
R2020	401 164 7605	MT-FILM 2.2K DU 1/10W
R2021	401 165 0209	MT-FILM 22K DU 1/10W
R2022	401 037 5608	MT-GLAZE 10K JA 1/10W
R2023	401 037 5004	MT-GLAZE 0 ZA 1/10W
R2024	401 037 5400	MT-GLAZE 1K JA 1/10W
R2101	401 037 5004	MT-GLAZE 0 ZA 1/10W
R2201	401 037 5400	MT-GLAZE 1K JA 1/10W
R2301	401 037 5400	MT-GLAZE 1K JA 1/10W
R2302	401 037 9309	MT-GLAZE 18K JA 1/10W
R2303	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R2304	401 038 2507	MT-GLAZE 3.3 JA 1/10W
VR201	636 019 7909	SVR 10K OHM

COMPL,PCB,AD-1

COMPL.NO. 636 037 5796

LOCATION	PARTS NO.	DESCRIPTION
C2801	403 069 1702	CERAMIC 1000P K 50V
OR	403 069 2105	CERAMIC 1000P K 50V
C2802	403 192 5905	CERAMIC 0.1U K 25V
OR	403 230 9803	CERAMIC 0.1U K 25V
C2821	403 073 0005	CERAMIC 3300P K 50V
OR	403 108 7504	CERAMIC 3300P K 50V
C2822	403 075 0706	CERAMIC 6800P K 50V
OR	403 075 1109	CERAMIC 6800P K 50V
C2823	403 067 9809	CERAMIC 0.1U K 25V
OR	403 231 0809	CERAMIC 0.1U K 25V
C2831	403 152 9806	ELECT 10U M 16V
OR	403 162 4709	ELECT 10U M 16V
C2832	403 152 9806	ELECT 10U M 16V
OR	403 162 4709	ELECT 10U M 16V
C2834	403 026 7501	CERAMIC 470P J 50V
C2834	403 108 9300	CERAMIC 470P J 50V
C2851	403 152 9707	ELECT 22U M 6.3V
OR	403 162 4006	ELECT 22U M 6.3V
CN282	636 034 2743	JACK,MIC
Q2801	405 092 4101	TR 2SC4081-R-T106
OR	405 077 3402	TR 2SC4211-6-TL
Q2831	405 092 4101	TR 2SC4081-R-T106
OR	405 077 3402	TR 2SC4211-6-TL
Q2832	405 092 4101	TR 2SC4081-R-T106
OR	405 077 3402	TR 2SC4211-6-TL
R2801	401 164 7100	MT-FILM 1.5K DU 1/10W
R2802	401 165 0902	MT-FILM 47K DU 1/10W
R2803	401 165 0902	MT-FILM 47K DU 1/10W
R2804	401 164 8404	MT-FILM 4.7K DU 1/10W
R2805	401 164 8008	MT-FILM 3.3K DU 1/10W
R2806	401 037 5004	MT-GLAZE 0 ZA 1/10W
R2821	401 164 7100	MT-FILM 1.5K DU 1/10W
R2822	401 037 5707	MT-GLAZE 100K JA 1/10W
R2831	401 165 0209	MT-FILM 22K DU 1/10W
R2832	401 038 2200	MT-GLAZE 27K JA 1/10W
R2833	401 164 4901	MT-FILM 180 DU 1/10W
R2834	401 037 5400	MT-GLAZE 1K JA 1/10W
R2835	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R2836	401 164 8404	MT-FILM 4.7K DU 1/10W
R2837	401 037 5004	MT-GLAZE 0 ZA 1/10W
R2851	401 038 0602	MT-GLAZE 220 JA 1/10W

COMPL,PCB,DM-1

COMPL.NO. 636 037 5802

LOCATION	PARTS NO.	DESCRIPTION
CN204	636 034 2736	JACK,EARPHONE
R2901	401 038 8905	MT-GLAZE 68 JA 1/10W
R2902	401 038 8905	MT-GLAZE 68 JA 1/10W

COMPL,PCB,SV-1

COMPL.NO. 636 037 5826

LOCATION	PARTS NO.	DESCRIPTION
C3201	403 162 4006	ELECT 22U M 6.3V
C3202	403 068 0409	CERAMIC 0.1U Z 25V
C3203	403 176 3200	CERAMIC 1U Z 25V
C3204	403 009 5708	CERAMIC 100P J 50V
C3205	403 176 3200	CERAMIC 1U Z 25V
C3206	403 071 8102	CERAMIC 2200P K 50V
C3207	403 176 3200	CERAMIC 1U Z 25V
C3208	403 028 4102	CERAMIC 56P J 50V
C3209	403 028 4102	CERAMIC 56P J 50V
C3210	403 028 4102	CERAMIC 56P J 50V
C3211	403 022 2609	CERAMIC 30P J 50V
C3212	403 009 5708	CERAMIC 100P J 50V
C3501	403 162 4709	ELECT 10U M 16V
C3502	403 068 0409	CERAMIC 0.1U Z 25V
C3504	403 068 0409	CERAMIC 0.1U Z 25V
C3505	403 010 8507	CERAMIC 12P J 50V
C3506	403 010 8507	CERAMIC 12P J 50V
C3507	403 068 5107	CERAMIC 0.047U Z 25V
C3508	403 068 5107	CERAMIC 0.047U Z 25V
C3509	403 068 5107	CERAMIC 0.047U Z 25V
C3510	403 068 0409	CERAMIC 0.1U Z 25V
C3531	403 018 7403	CERAMIC 220P J 50V
C3533	403 176 3200	CERAMIC 1U Z 25V
C3535	403 176 3200	CERAMIC 1U Z 25V
C3536	403 162 4006	ELECT 22U M 6.3V
C3537	403 068 0409	CERAMIC 0.1U Z 25V
C3538	403 068 0409	CERAMIC 0.1U Z 25V
C3561	403 162 4709	ELECT 10U M 16V

LOCATION	PARTS NO.	DESCRIPTION
C3562	403 162 4709	ELECT 10U M 16V
C3701	403 176 3200	CERAMIC 1U Z 25V
C3702	403 176 3200	CERAMIC 1U Z 25V
C3704	403 069 1702	CERAMIC 1000P K 50V
C3705	403 022 8205	CERAMIC 33P J 50V
C3706	403 022 8205	CERAMIC 33P J 50V
C3707	403 068 5107	CERAMIC 0.047U Z 25V
C3708	403 069 1702	CERAMIC 1000P K 50V
C3709	403 068 5107	CERAMIC 0.047U Z 25V
C3710	403 069 1702	CERAMIC 1000P K 50V
C3711	403 068 5107	CERAMIC 0.047U Z 25V
C3713	403 023 4404	CERAMIC 330P J 50V
C3714	403 073 0005	CERAMIC 3300P K 50V
C3715	403 069 1702	CERAMIC 1000P K 50V
C3716	403 068 0409	CERAMIC 0.1U Z 25V
C3731	403 073 7301	CERAMIC 470P K 50V
C3732	403 028 4102	CERAMIC 56P J 50V
C3733	403 069 1702	CERAMIC 1000P K 50V
C3734	403 070 8806	CERAMIC 1500P K 50V
C3735	403 018 0503	CERAMIC 22P J 50V
C3736	403 176 3200	CERAMIC 1U Z 25V
C3737	403 162 4006	ELECT 22U M 6.3V
C3801	403 068 0409	CERAMIC 0.1U Z 25V
C3802	403 162 4709	ELECT 10U M 16V
C3803	403 068 5107	CERAMIC 0.047U Z 25V
C3804	403 073 9107	CERAMIC 4700P K 50V
C3805	403 068 0409	CERAMIC 0.1U Z 25V
C3806	403 176 3200	CERAMIC 1U Z 25V
C3812	403 162 4709	ELECT 10U M 16V
C3813	403 093 6209	OS-SOLID 10U M 10V
C3814	403 014 9203	CERAMIC 180P J 50V
C3815	403 073 0005	CERAMIC 3300P K 50V
C3816	403 068 0409	CERAMIC 0.1U Z 25V
C3817	403 008 7406	CERAMIC 10P D 50V
C3818	403 018 0503	CERAMIC 22P J 50V
C3819	403 093 6209	OS-SOLID 10U M 10V
C3820	403 093 6209	OS-SOLID 10U M 10V
C3821	403 018 0503	CERAMIC 22P J 50V
C3822	403 008 7406	CERAMIC 10P D 50V
C3823	403 068 0409	CERAMIC 0.1U Z 25V
C3824	403 073 0005	CERAMIC 3300P K 50V
C3825	403 068 0409	CERAMIC 0.1U Z 25V
C3826	403 068 5107	CERAMIC 0.047U Z 25V
C3841	403 165 5000	TA-SOLID 4.7U M 16V
C3842	403 176 3101	CERAMIC 0.22U Z 50V
C3843	403 176 3101	CERAMIC 0.22U Z 50V
C3844	403 176 3200	CERAMIC 1U Z 25V
C3846	403 073 0005	CERAMIC 3300P K 50V
C3847	403 073 0005	CERAMIC 3300P K 50V
C3848	403 073 0005	CERAMIC 3300P K 50V
C3849	403 069 5601	CERAMIC 0.01U K 50V
C3850	403 069 1702	CERAMIC 1000P K 50V
C3851	403 068 5107	CERAMIC 0.047U Z 25V
C3852	403 075 0706	CERAMIC 6800P K 50V
C3853	403 069 1702	CERAMIC 1000P K 50V
C3854	403 068 5107	CERAMIC 0.047U Z 25V
C3855	403 075 0706	CERAMIC 6800P K 50V
C3856	403 068 0409	CERAMIC 0.1U Z 25V
C3860	403 176 3200	CERAMIC 1U Z 25V
C3871	403 068 0409	CERAMIC 0.1U Z 25V
C3872	403 068 0409	CERAMIC 0.1U Z 25V
C3873	403 068 0409	CERAMIC 0.1U Z 25V
C3874	403 176 3200	CERAMIC 1U Z 25V
C3875	403 176 3200	CERAMIC 1U Z 25V
CT321	636 026 4014	CAP.TRIM 30P-W
D3501	407 004 0102	DIODE DCA010
D3502	407 004 0607	DIODE DCB010

LOCATION	PARTS NO.	DESCRIPTION
D3841	407 004 0102	DIODE DCA010
IC321	409 244 2403	IC BA7046F-T1
IC322	409 170 0603	IC UPD6142G-101-T1
IC323	409 208 1909	IC MLC74HC08AM-T1
IC351	410 137 1908	IC CXP80116-707Q
IC352	409 018 3704	IC LA6358M-T1
OR	409 220 6906	IC LM358D-R
IC371	409 150 0500	IC CXA1204Q
IC381	409 244 2205	IC CXA1512M-T3
IC382	409 132 3307	IC MB3775PF-G-BND-TF
IC383	409 244 2304	IC CXA8006M-E1
IC384	409 139 5304	IC LB1617M-T1
L3201	636 003 1241	HF CHOKE.33UH
L3501	636 019 8579	COIL.INDUCTOR 100UH
L3531	636 030 3157	COIL.INDUCTOR 100UH
OR	636 038 3975	COIL.INDUCTOR 100UH
L3701	636 002 8876	RF CHOKE.330UH
L3811	636 027 5829	COIL.INDUCTOR 10UH
OR	636 038 3968	COIL.INDUCTOR 10UH
L3812	636 030 7339	COIL.CHOKE 47UH
L3813	636 030 7339	COIL.CHOKE 47UH
Q3201	405 029 3504	TR DTC144EK-T96
OR	405 018 1900	TR 2SC3395
Q3202	405 089 5807	TR FC106-TL
OR	405 085 1308	TR IMH2-T110
Q3531	405 047 8109	TR 2SB1202-S-TL
Q3532	405 015 8407	TR 2SC2812-L5
Q3561	405 087 9708	TR FC104-TL
OR	405 035 1105	TR FMW1-T99
Q3562	405 087 9708	TR FC104-TL
OR	405 035 1105	TR FMW1-T99
Q3581	405 000 2908	TR DTC114EK-T96
OR	405 018 2402	TR 2SC3398
Q3701	405 002 6706	TR 2SA1179-M6
Q3731	405 015 8407	TR 2SC2812-L5
Q3732	405 002 6706	TR 2SA1179-M6
Q3811	405 015 8407	TR 2SC2812-L5
Q3812	405 110 3406	TR FP101-TL
Q3813	405 058 5401	TR FMC2-T149
Q3814	405 015 8407	TR 2SC2812-L5
Q3815	405 110 3406	TR FP101-TL
Q3841	405 087 9500	TR FC101-TL
OR	405 082 8706	TR IMT1-T110
R3201	401 037 9002	MT-GLAZE 18 JA 1/10W
R3202	401 037 9002	MT-GLAZE 18 JA 1/10W
R3204	401 037 5608	MT-GLAZE 10K JA 1/10W
R3205	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R3206	401 038 6604	MT-GLAZE 470K JA 1/10W
R3207	401 038 6604	MT-GLAZE 470K JA 1/10W
R3208	401 037 6902	MT-GLAZE 120K JA 1/10W
R3209	401 038 5300	MT-GLAZE 39K JA 1/10W
R3210	401 037 5608	MT-GLAZE 10K JA 1/10W
R3212	401 037 5608	MT-GLAZE 10K JA 1/10W
R3213	401 037 5202	MT-GLAZE 100 JA 1/10W
R3214	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R3216	401 037 5608	MT-GLAZE 10K JA 1/10W
R3220	401 037 5004	MT-GLAZE 0 ZA 1/10W
R3503	401 037 5608	MT-GLAZE 10K JA 1/10W
R3506	401 037 5400	MT-GLAZE 1K JA 1/10W
R3513	401 038 3801	MT-GLAZE 330K JA 1/10W
R3514	401 038 2309	MT-GLAZE 270K JA 1/10W
R3515	401 037 5608	MT-GLAZE 10K JA 1/10W
R3516	401 038 3801	MT-GLAZE 330K JA 1/10W
R3517	401 038 6505	MT-GLAZE 47K JA 1/10W
R3518	401 037 5608	MT-GLAZE 10K JA 1/10W

LOCATION	PARTS NO.	DESCRIPTION
R3519	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3521	401 037 5707	MT-GLAZE 100K JA 1/10W
R3531	401 037 5400	MT-GLAZE 1K JA 1/10W
R3532	401 037 5400	MT-GLAZE 1K JA 1/10W
R3533	401 038 9001	MT-GLAZE 680 JA 1/10W
R3534	401 038 9001	MT-GLAZE 680 JA 1/10W
R3535	401 037 5707	MT-GLAZE 100K JA 1/10W
R3536	401 038 3801	MT-GLAZE 330K JA 1/10W
R3537	401 038 3801	MT-GLAZE 330K JA 1/10W
R3538	401 038 5409	MT-GLAZE 390K JA 1/10W
R3561	401 038 7809	MT-GLAZE 56K JA 1/10W
R3562	401 037 5707	MT-GLAZE 100K JA 1/10W
R3563	401 037 8104	MT-GLAZE 150K JA 1/10W
R3564	401 037 5608	MT-GLAZE 10K JA 1/10W
R3565	401 038 6505	MT-GLAZE 47K JA 1/10W
R3566	401 038 7809	MT-GLAZE 56K JA 1/10W
R3567	401 037 5707	MT-GLAZE 100K JA 1/10W
R3568	401 037 8104	MT-GLAZE 150K JA 1/10W
R3569	401 037 5608	MT-GLAZE 10K JA 1/10W
R3570	401 038 6505	MT-GLAZE 47K JA 1/10W
R3581	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R3582	401 037 5608	MT-GLAZE 10K JA 1/10W
R3591	401 037 5608	MT-GLAZE 10K JA 1/10W
R3592	401 037 5707	MT-GLAZE 100K JA 1/10W
R3593	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3594	401 038 0602	MT-GLAZE 220 JA 1/10W
R3595	401 037 9101	MT-GLAZE 180 JA 1/10W
R3596	401 037 5608	MT-GLAZE 10K JA 1/10W
R3597	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R3598	401 038 7601	MT-GLAZE 560 JA 1/10W
R3701	401 037 5608	MT-GLAZE 10K JA 1/10W
R3702	401 038 6505	MT-GLAZE 47K JA 1/10W
R3703	401 038 6505	MT-GLAZE 47K JA 1/10W
R3706	401 037 5806	MT-GLAZE 1M JA 1/10W
R3707	401 039 0304	MT-GLAZE 820 JA 1/10W
R3710	401 037 5608	MT-GLAZE 10K JA 1/10W
R3711	401 038 6307	MT-GLAZE 470 JA 1/10W
R3712	401 038 6307	MT-GLAZE 470 JA 1/10W
R3713	401 037 5608	MT-GLAZE 10K JA 1/10W
R3714	401 038 7601	MT-GLAZE 560 JA 1/10W
R3715	401 037 5202	MT-GLAZE 100 JA 1/10W
R3716	401 037 9101	MT-GLAZE 180 JA 1/10W
R3731	401 037 9309	MT-GLAZE 18K JA 1/10W
R3736	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3739	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3741	401 037 5004	MT-GLAZE 0 ZA 1/10W
R3801	401 037 5806	MT-GLAZE 1M JA 1/10W
R3802	401 038 9407	MT-GLAZE 680K JA 1/10W
R3811	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R3812	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R3813	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3814	401 038 6505	MT-GLAZE 47K JA 1/10W
R3815	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R3816	401 038 9001	MT-GLAZE 680 JA 1/10W
R3817	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3818	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R3819	401 038 6505	MT-GLAZE 47K JA 1/10W
R3820	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R3821	401 038 9001	MT-GLAZE 680 JA 1/10W
R3822	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3823	401 037 9200	MT-GLAZE 1.8K JA 1/10W
R3825	401 038 5102	MT-GLAZE 3.9K JA 1/10W
R3826	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3827	401 038 0602	MT-GLAZE 220 JA 1/10W
R3828	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R3841	401 037 5707	MT-GLAZE 100K JA 1/10W
R3842	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R3843	401 037 5608	MT-GLAZE 10K JA 1/10W
R3845	401 038 3504	MT-GLAZE 330 JA 1/10W

LOCATION	PARTS NO.	DESCRIPTION
R3847	401 038 3603	MT-GLAZE 3.3K JA 1/10W
R3848	401 038 6406	MT-GLAZE 4.7K JA 1/10W
R3849	401 038 0701	MT-GLAZE 2.2K JA 1/10W
R3850	401 110 8601	MT-GLAZE 1 JA 1/10W
R3851	401 110 8601	MT-GLAZE 1 JA 1/10W
R3852	401 110 8601	MT-GLAZE 1 JA 1/10W
R3853	401 110 8601	MT-GLAZE 1 JA 1/10W
R3854	401 038 2200	MT-GLAZE 27K JA 1/10W
R3855	401 038 2200	MT-GLAZE 27K JA 1/10W
R3856	401 038 2200	MT-GLAZE 27K JA 1/10W
R3857	401 037 5608	MT-GLAZE 10K JA 1/10W
R3871	401 098 7603	MT-GLAZE 2.2 JA 1/10W
R3872	401 098 7603	MT-GLAZE 2.2 JA 1/10W
R3873	401 098 7603	MT-GLAZE 2.2 JA 1/10W
R3875	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R3878	401 038 0602	MT-GLAZE 220 JA 1/10W
RB321	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB353	636 037 5994	CIP R-NETWORK,100K OHM
OR	636 036 0259	CHIP R-NETWORK 100K OHM
RB354	636 037 5994	CIP R-NETWORK,100K OHM
OR	636 036 0259	CHIP R-NETWORK 100K OHM
RB356	636 037 5994	CIP R-NETWORK,100K OHM
OR	636 036 0259	CHIP R-NETWORK 100K OHM
RB357	636 037 5994	CIP R-NETWORK,100K OHM
OR	636 036 0259	CHIP R-NETWORK 100K OHM
RB358	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB359	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB360	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB371	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB372	636 037 6021	CIP R-NETWORK,3.3K OHM
OR	636 039 5824	CIP R-NETWORK,3.3K OHM
RB373	636 037 6021	CIP R-NETWORK,3.3K OHM
OR	636 039 5824	CIP R-NETWORK,3.3K OHM
RB381	636 037 6007	CIP R-NETWORK, 22K OHM
OR	636 039 5817	CIP R-NETWORK, 22K OHM
RB382	636 037 6007	CIP R-NETWORK, 22K OHM
OR	636 039 5817	CIP R-NETWORK, 22K OHM
RB383	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB384	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
VR351	636 019 7916	SVR 100K OHM
VR352	636 019 7916	SVR 100K OHM
VR353	636 019 7916	SVR 100K OHM
X3501	636 028 7631	OSC,CRYSTAL 8MHZ
OR	636 023 4680	OSC,CRYSTAL 8MHZ
X3701	636 028 7655	OSC,CRYSTAL 5.85938MHZ
OR	636 000 4917	CRYSTAL

COMPL,PCB,SY-1

COMPL.NO. 636 037 5833

C3001	403 022 8205	CERAMIC 33P J 50V
C3002	403 162 4709	ELECT 10U M 16V
C3004	403 162 4709	ELECT 10U M 16V
C3005	403 068 0409	CERAMIC 0.1U Z 25V
C3006	403 068 5107	CERAMIC 0.047U Z 25V
C3007	403 162 4709	ELECT 10U M 16V
C3008	403 068 0409	CERAMIC 0.1U Z 25V
C3009	403 068 0409	CERAMIC 0.1U Z 25V

LOCATION	PARTS NO.	DESCRIPTION
CT301	636 026 4014	CAP,TRIM 30P-W
D3001	407 117 5001	LED BR1102W-TR
D3002	407 004 0607	DIODE DCB010
D3004	407 111 7308	DIODE FMN1-T99
OR	405 105 9901	TR FC808-TL
D3005	407 111 7308	DIODE FMN1-T99
OR	405 105 9901	TR FC808-TL
D3006	407 057 8902	ZENER DIODE RD8.2MB2
IC301	410 132 0807	IC UPD75006GB-564-3B4
IC302	409 264 2209	IC S-8420BF-T1
IC303	409 244 2502	IC TL1596DB-T1
Q3001	405 060 6502	TR DTC144TK-T96
OR	405 045 2000	TR 2SC3898
R3001	401 037 5400	MT-GLAZE 1K JA 1/10W
R3002	401 038 7601	MT-GLAZE 560 JA 1/10W
R3004	401 038 3801	MT-GLAZE 330K JA 1/10W
R3005	401 037 5400	MT-GLAZE 1K JA 1/10W
R3006	401 037 5400	MT-GLAZE 1K JA 1/10W
R3007	401 037 5707	MT-GLAZE 100K JA 1/10W
R3008	401 037 5707	MT-GLAZE 100K JA 1/10W
R3009	401 037 5202	MT-GLAZE 100 JA 1/10W
R3010	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R3013	401 037 5707	MT-GLAZE 100K JA 1/10W
R3014	401 037 5608	MT-GLAZE 10K JA 1/10W
RB301	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB302	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB303	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB304	636 037 5970	CIP R-NETWORK, 1K OHM
OR	636 039 5800	CIP R-NETWORK, 1K OHM
RB305	636 037 5970	CIP R-NETWORK, 1K OHM
OR	636 039 5800	CIP R-NETWORK, 1K OHM
RB306	636 037 6038	CIP R-NETWORK, 47K OHM
OR	636 039 5831	CIP R-NETWORK, 47K OHM
RB307	636 037 6038	CIP R-NETWORK, 47K OHM
OR	636 039 5831	CIP R-NETWORK, 47K OHM
RB308	636 037 6038	CIP R-NETWORK, 47K OHM
OR	636 039 5831	CIP R-NETWORK, 47K OHM
RB309	636 037 5970	CIP R-NETWORK, 1K OHM
OR	636 039 5800	CIP R-NETWORK, 1K OHM
RB312	636 037 5987	CIP R-NETWORK, 10K OHM
OR	636 036 0242	CHIP R-NETWORK 10K OHM
RB313	636 037 5994	CIP R-NETWORK,100K OHM
OR	636 036 0259	CHIP R-NETWORK 100K OHM
RB314	636 037 5994	CIP R-NETWORK,100K OHM
OR	636 036 0259	CHIP R-NETWORK 100K OHM
S3001	636 034 8837	SW,SLIDE
S3002	636 019 0313	SW,SLIDE
S3003	636 025 2950	SW,PUSH
S3004	636 025 2950	SW,PUSH
S3005	636 025 2950	SW,PUSH
S3006	636 025 2950	SW,PUSH
S3007	636 025 0529	SW,SLIDE
X3001	636 034 8912	RESONATOR,CERAMIC 4MHZ
X3002	636 025 5876	OSC,CRYSTAL 32.768MHZ

COMPL,PCB,SY-2

COMPL.NO. 636 037 5840

LOCATION	PARTS NO.	DESCRIPTION
D3101	407 004 0607	DIODE DCB010
D3102	407 111 7308	DIODE FMN1-T99
OR	405 105 9901	TR FC808-TL
D3103	407 111 7308	DIODE FMN1-T99
OR	405 105 9901	TR FC808-TL
Q3101	405 110 9903	TR IMH15-T110
OR	405 111 0404	TR FC124-TL
Q3102	405 060 6502	TR DTC144TK-T96
OR	405 045 2000	TR 2SC3898
R3101	401 038 6505	MT-GLAZE 47K JA 1/10W
S3101	636 000 8571	PUSH SWITCH
S3102	636 000 8571	PUSH SWITCH
S3103	636 000 8571	PUSH SWITCH
S3104	636 000 8571	PUSH SWITCH
S3105	636 000 8571	PUSH SWITCH
S3106	636 000 8571	PUSH SWITCH
S3107	636 000 8571	PUSH SWITCH
S3108	636 000 8571	PUSH SWITCH

COMPL PCB,TB-1

COMPL.NO. 636 025 2271

LOCATION	PARTS NO.	DESCRIPTION
S8601	636 025 0543	SW,PUSH

COMPL,PCB,CA-1

COMPL.NO. 636 037 7707

LOCATION	PARTS NO.	DESCRIPTION
C9001	403 152 9707	ELECT 22U M 6.3V
C9002	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9040	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9041	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9042	403 152 9707	ELECT 22U M 6.3V
C9043	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9044	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9045	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9046	403 157 3601	CERAMIC 100P J 50V
C9047	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9051	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9052	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9054	403 157 1904	CERAMIC 10P D 50V
C9056	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9057	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9058	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9059	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9060	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9061	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9101	403 139 7306	CERAMIC 18P J 50V
C9103	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9105	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9106	403 164 0204	CERAMIC 0.1U Z 25V

LOCATION	PARTS NO.	DESCRIPTION
C9106	403 176 0209	CERAMIC 0.1U Z 25V
C9107	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9109	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9111	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9112	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9113	403 157 7609	CERAMIC 0.022U Z 25V
C9114	403 152 9707	ELECT 22U M 6.3V
C9115	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9120	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9121	403 152 9707	ELECT 22U M 6.3V
C9122	403 153 0901	ELECT 100U M 6.3V
OR	403 175 0606	ELECT 100U M 6.3V
C9123	403 157 7609	CERAMIC 0.022U Z 25V
C9124	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9125	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9126	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9127	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9136	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9137	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9138	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9139	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9140	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9141	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9142	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9143	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9171	403 113 3805	CERAMIC 1000P K 50V
C9172	403 113 3805	CERAMIC 1000P K 50V
C9173	403 157 3205	CERAMIC 62P J 50V
C9177	403 113 3805	CERAMIC 1000P K 50V
C9178	403 202 7103	TA-SOLID 10U M 6.3V
OR	403 192 0405	TA-SOLID 10U M 6.3V
C9179	403 202 7103	TA-SOLID 10U M 6.3V
OR	403 192 0405	TA-SOLID 10U M 6.3V
C9180	403 192 0207	TA-SOLID 4.7U M 6.3V
OR	403 202 7004	TA-SOLID 4.7U M 6.3V
C9181	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9182	403 167 0201	TA-SOLID 3.3U M 6.3V
OR	403 202 6908	TA-SOLID 3.3U M 6.3V
C9183	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9184	403 167 0201	TA-SOLID 3.3U M 6.3V
OR	403 202 6908	TA-SOLID 3.3U M 6.3V
C9185	403 113 3805	CERAMIC 1000P K 50V
C9190	403 157 3106	CERAMIC 56P J 50V
C9192	403 155 2309	CERAMIC 4700P K 50V
C9193	403 157 7609	CERAMIC 0.022U Z 25V
C9194	403 152 9707	ELECT 22U M 6.3V
C9195	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9211	403 164 0204	CERAMIC 0.1U Z 25V

LOCATION	PARTS NO.	DESCRIPTION
C9211	403 176 0209	CERAMIC 0.1U Z 25V
C9212	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9213	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9214	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9215	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9216	403 192 0306	TA-SOLID 6.8U M 6.3V
OR	403 203 0509	TA-SOLID 6.8U M 6.3V
C9217	403 157 2901	CERAMIC 47P J 50V
C9218	403 192 0306	TA-SOLID 6.8U M 6.3V
OR	403 203 0509	TA-SOLID 6.8U M 6.3V
C9219	403 167 1208	TA-SOLID 0.22U M 35V
OR	403 203 3302	TA-SOLID 0.22U M 35V
C9220	403 152 9707	ELECT 22U M 6.3V
C9222	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9223	403 153 0901	ELECT 100U M 6.3V
OR	403 175 0606	ELECT 100U M 6.3V
C9224	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9225	403 167 0904	TA-SOLID 0.47U M 25V
OR	403 203 2404	TA-SOLID 0.47U M 25V
C9226	403 167 0904	TA-SOLID 0.47U M 25V
OR	403 203 2404	TA-SOLID 0.47U M 25V
C9227	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9228	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9229	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9230	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9231	403 157 2901	CERAMIC 47P J 50V
C9232	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9273	403 167 2205	TA-SOLID 1U M 35V
OR	403 203 3708	TA-SOLID 1U M 35V
C9274	403 167 2205	TA-SOLID 1U M 35V
OR	403 203 3708	TA-SOLID 1U M 35V
C9275	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9276	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9278	403 167 2205	TA-SOLID 1U M 35V
OR	403 203 3708	TA-SOLID 1U M 35V
C9279	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9280	403 167 0201	TA-SOLID 3.3U M 6.3V
OR	403 202 6908	TA-SOLID 3.3U M 6.3V
C9281	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9282	403 091 4702	TA-SOLID 3.3U M 16V
OR	403 203 1506	TA-SOLID 3.3U M 16V
C9283	403 167 0607	TA-SOLID 1U M 16V
OR	403 203 1407	TA-SOLID 1U M 16V
C9285	403 192 0801	TA-SOLID 22U M 6.3V
OR	403 203 0608	TA-SOLID 22U M 6.3V
C9286	403 113 3805	CERAMIC 1000P K 50V
C9287	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9288	403 192 2508	TA-SOLID 3.3U M 20V
OR	403 202 8902	TA-SOLID 3.3U M 20V
CT915	636 026 4014	CAP,TRIM 30P-W
D9101	407 129 0605	ZENER DIODE MA3082-M-TW

LOCATION	PARTS NO.	DESCRIPTION
D9170	407 134 7309	DIODE MA141WA-TX
D9171	407 141 2106	DIODE DCJ010-TL
OR	407 130 2605	DIODE MA143A-TX
D9172	407 134 7309	DIODE MA141WA-TX
D9173	407 134 7200	DIODE MA141K-TX
F9140 ⚠	404 040 5306	CERAMIC 47P M 100V
F9141 ⚠	404 040 5504	CERAMIC 470P M 100V
F9150 ⚠	404 040 5504	CERAMIC 470P M 100V
IC911	409 245 4208	IC MSM6524GS-VKR2
IC912	409 223 9508	IC CXA1392R-T3
IC913	409 223 9607	IC CXL1508N-T3
IC914	409 223 9409	IC CXA1391R-T3
IC915	409 251 0201	IC CXD1217Q-T3
IC916	409 223 9201	IC CXD1253R-T3
OR	409 264 3503	IC CXD1253AR-T3
IC917	409 223 9300	IC CXA1390R-T3
IC918	409 212 8406	IC CXD1250N-T3
L9101	636 034 9797	COIL,INDUCTOR 10UH
L9110	636 003 2415	HF CHOKE,12UH
L9120	636 034 9797	COIL,INDUCTOR 10UH
L9140	636 020 3969	COIL,INDUCTOR 10UH
L9141	636 020 3969	COIL,INDUCTOR 10UH
Q9110	405 082 9000	TR IMZ2-T99
Q9111	405 082 9000	TR IMZ2-T99
Q9112	405 102 5104	TR XN5501-TW
Q9113	405 102 5500	TR 2SB1218A-R-TX
Q9114	405 102 5104	TR XN5501-TW
Q9120	405 102 5500	TR 2SB1218A-R-TX
Q9121	405 102 5500	TR 2SB1218A-R-TX
Q9130	405 102 5500	TR 2SB1218A-R-TX
Q9131	405 102 5609	TR 2SD1819A-R-TX
Q9132	405 102 5104	TR XN5501-TW
Q9133	405 102 5500	TR 2SB1218A-R-TX
Q9140	405 079 6302	TR 2SC4399-5-TL
Q9141	405 027 9706	TR 2SK94-X3
Q9142	405 102 5203	TR UN5212-TX
Q9161	405 102 5609	TR 2SD1819A-R-TX
Q9162	405 082 9000	TR IMZ2-T99
Q9170	405 102 5609	TR 2SD1819A-R-TX
Q9171	405 102 5104	TR XN5501-TW
Q9172	405 102 5500	TR 2SB1218A-R-TX
Q9173	405 045 8200	TR 2SK443-6
R9001	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9002	401 105 0504	MT-GLAZE 1K JA 1/16W
R9003	401 105 0504	MT-GLAZE 1K JA 1/16W
R9004	401 105 0504	MT-GLAZE 1K JA 1/16W
R9005	401 105 0504	MT-GLAZE 1K JA 1/16W
R9006	401 105 0504	MT-GLAZE 1K JA 1/16W
R9007	401 105 0504	MT-GLAZE 1K JA 1/16W
R9008	401 105 0603	MT-GLAZE 10K JA 1/16W
R9009	401 105 0603	MT-GLAZE 10K JA 1/16W
R9010	401 105 0603	MT-GLAZE 10K JA 1/16W
R9011	401 105 0603	MT-GLAZE 10K JA 1/16W
R9012	401 105 0603	MT-GLAZE 10K JA 1/16W
R9013	401 105 0603	MT-GLAZE 10K JA 1/16W
R9014	401 105 8104	MT-GLAZE 56K JA 1/16W
R9015	401 105 8203	MT-GLAZE 68K JA 1/16W
R9016	401 105 2102	MT-GLAZE 18K JA 1/16W
R9017	401 105 3406	MT-GLAZE 27K JA 1/16W
R9018	401 105 5400	MT-GLAZE 47K JA 1/16W
R9019	401 105 2102	MT-GLAZE 18K JA 1/16W
R9020	401 105 3406	MT-GLAZE 27K JA 1/16W
R9021	401 105 3406	MT-GLAZE 27K JA 1/16W
R9022	401 105 4700	MT-GLAZE 39K JA 1/16W

LOCATION	PARTS NO.	DESCRIPTION
R9023	401 105 3406	MT-GLAZE 27K JA 1/16W
R9024	401 105 5400	MT-GLAZE 47K JA 1/16W
R9025	401 105 5400	MT-GLAZE 47K JA 1/16W
R9040	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9043	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9044	401 105 0702	MT-GLAZE 100K JA 1/16W
R9045	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9048	401 105 7503	MT-GLAZE 82K JA 1/16W
R9049	401 105 2102	MT-GLAZE 18K JA 1/16W
R9050	401 105 0504	MT-GLAZE 1K JA 1/16W
R9051	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R9052	401 105 1105	MT-GLAZE 12K JA 1/16W
R9053	401 105 1600	MT-GLAZE 15K JA 1/16W
R9055	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9056	401 105 8104	MT-GLAZE 56K JA 1/16W
R9058	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9059	401 105 5400	MT-GLAZE 47K JA 1/16W
R9060	401 105 0603	MT-GLAZE 10K JA 1/16W
R9063	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9064	401 105 5400	MT-GLAZE 47K JA 1/16W
R9065	401 105 0504	MT-GLAZE 1K JA 1/16W
R9066	401 105 0702	MT-GLAZE 100K JA 1/16W
R9067	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9068	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R9069	401 105 2904	MT-GLAZE 22K JA 1/16W
R9070	401 105 0603	MT-GLAZE 10K JA 1/16W
R9071	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R9072	401 105 0504	MT-GLAZE 1K JA 1/16W
R9073	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R9074	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R9075	401 105 2904	MT-GLAZE 22K JA 1/16W
R9076	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9077	401 105 0504	MT-GLAZE 1K JA 1/16W
R9078	401 105 0603	MT-GLAZE 10K JA 1/16W
R9079	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9080	401 105 0504	MT-GLAZE 1K JA 1/16W
R9081	401 105 0504	MT-GLAZE 1K JA 1/16W
R9082	401 105 1600	MT-GLAZE 15K JA 1/16W
R9083	401 105 0702	MT-GLAZE 100K JA 1/16W
R9084	401 105 0603	MT-GLAZE 10K JA 1/16W
R9085	401 164 9302	MT-FILM 10K DU 1/10W
R9086	401 165 0407	MT-FILM 27K DU 1/10W
R9101	401 105 2706	MT-GLAZE 220 JA 1/16W
R9103	401 105 2706	MT-GLAZE 220 JA 1/16W
R9105	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9106	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9108	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9120	401 158 4009	MT-GLAZE 3.3 JA 1/16W
R9122	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R9123	401 105 5202	MT-GLAZE 470 JA 1/16W
R9124	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9125	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R9126	401 105 0603	MT-GLAZE 10K JA 1/16W
R9127	401 105 3406	MT-GLAZE 27K JA 1/16W
R9129	401 105 0603	MT-GLAZE 10K JA 1/16W
R9130	401 105 0603	MT-GLAZE 10K JA 1/16W
R9131	401 164 9500	MT-FILM 12K DU 1/10W
R9132	401 165 0407	MT-FILM 27K DU 1/10W
R9133	401 105 2904	MT-GLAZE 22K JA 1/16W
R9134	401 105 0603	MT-GLAZE 10K JA 1/16W
R9137	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9138	401 105 3406	MT-GLAZE 27K JA 1/16W
R9139	401 105 2102	MT-GLAZE 18K JA 1/16W
R9140	401 105 8104	MT-GLAZE 56K JA 1/16W
R9141	401 105 8104	MT-GLAZE 56K JA 1/16W
R9142	401 105 0603	MT-GLAZE 10K JA 1/16W
R9143	401 105 0603	MT-GLAZE 10K JA 1/16W
R9144	401 105 1600	MT-GLAZE 15K JA 1/16W
R9145	401 105 1105	MT-GLAZE 12K JA 1/16W

LOCATION	PARTS NO.	DESCRIPTION
R9146	401 105 1105	MT-GLAZE 12K JA 1/16W
R9147	401 105 2102	MT-GLAZE 18K JA 1/16W
R9148	401 105 1105	MT-GLAZE 12K JA 1/16W
R9149	401 105 3406	MT-GLAZE 27K JA 1/16W
R9150	401 105 2904	MT-GLAZE 22K JA 1/16W
R9151	401 105 2904	MT-GLAZE 22K JA 1/16W
R9153	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9155	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9156	401 105 3406	MT-GLAZE 27K JA 1/16W
R9157	401 105 4700	MT-GLAZE 39K JA 1/16W
R9158	401 105 8104	MT-GLAZE 56K JA 1/16W
R9159	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9170	401 105 0504	MT-GLAZE 1K JA 1/16W
R9171	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9174	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9175	401 105 1402	MT-GLAZE 150 JA 1/16W
R9176	401 105 0306	MT-GLAZE 10 JA 1/16W
R9177	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R9178	401 105 2706	MT-GLAZE 220 JA 1/16W
R9179	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9180	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9181	401 105 5509	MT-GLAZE 470K JA 1/16W
R9182	401 105 0702	MT-GLAZE 100K JA 1/16W
R9183	401 105 0603	MT-GLAZE 10K JA 1/16W
R9184	401 105 0603	MT-GLAZE 10K JA 1/16W
R9185	401 105 0603	MT-GLAZE 10K JA 1/16W
R9187	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9190	401 148 6006	MT-GLAZE 2.2 JA 1/16W
R9191	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9192	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9193	401 105 0504	MT-GLAZE 1K JA 1/16W
R9195	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9197	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9198	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9199	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9200	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9201	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9212	401 105 0504	MT-GLAZE 1K JA 1/16W
R9213	401 105 0504	MT-GLAZE 1K JA 1/16W
R9215	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9216	401 105 0603	MT-GLAZE 10K JA 1/16W
R9217	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9218	401 158 4009	MT-GLAZE 3.3 JA 1/16W
R9219	401 105 0603	MT-GLAZE 10K JA 1/16W
R9220	401 105 3406	MT-GLAZE 27K JA 1/16W
R9221	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9223	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9226	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9227	401 105 2706	MT-GLAZE 220 JA 1/16W
R9228	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9229	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9231	401 105 2102	MT-GLAZE 18K JA 1/16W
R9232	401 105 2102	MT-GLAZE 18K JA 1/16W
R9233	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9235	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9236	401 105 2904	MT-GLAZE 22K JA 1/16W
R9237	401 105 0504	MT-GLAZE 1K JA 1/16W
R9238	401 105 0603	MT-GLAZE 10K JA 1/16W
R9240	401 105 4700	MT-GLAZE 39K JA 1/16W
R9241	401 105 0603	MT-GLAZE 10K JA 1/16W
R9242	401 105 3406	MT-GLAZE 27K JA 1/16W
R9243	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R9244	401 105 4304	MT-GLAZE 330K JA 1/16W
R9245	401 105 1105	MT-GLAZE 12K JA 1/16W
R9246	401 105 5400	MT-GLAZE 47K JA 1/16W
R9247	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R9248	401 105 4205	MT-GLAZE 33K JA 1/16W
R9250	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9270	401 105 7909	MT-GLAZE 0 ZA 1/16W

LOCATION	PARTS NO.	DESCRIPTION
R9271	401 105 1709	MT-GLAZE 150K JA 1/16W
R9272	401 105 1600	MT-GLAZE 15K JA 1/16W
R9273	401 105 1600	MT-GLAZE 15K JA 1/16W
R9274	401 105 8005	MT-GLAZE 1M JA 1/16W
R9275	401 105 1600	MT-GLAZE 15K JA 1/16W
R9276	401 105 2904	MT-GLAZE 22K JA 1/16W
R9277	401 105 8104	MT-GLAZE 56K JA 1/16W
R9278	401 105 0702	MT-GLAZE 100K JA 1/16W
R9279	401 105 0603	MT-GLAZE 10K JA 1/16W
R9280	401 105 0702	MT-GLAZE 100K JA 1/16W
R9281	401 105 7503	MT-GLAZE 82K JA 1/16W
R9282	401 105 1600	MT-GLAZE 15K JA 1/16W
R9283	401 105 5400	MT-GLAZE 47K JA 1/16W
R9284	401 105 0405	MT-GLAZE 100 JA 1/16W
R9285	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R9286	401 105 4601	MT-GLAZE 3.9K JA 1/16W
T9110	636 031 3187	FILTER 4MHZ
T9130	636 033 4038	FILTER
T9160	636 031 8984	FILTER 4MHZ
VC915	407 099 2906	VARACTOR DI 1SV200-11TLC
VR911	636 031 0254	VR 47K OHM
VR912	636 031 0254	VR 47K OHM
VR915	636 031 0254	VR 47K OHM
X9140	636 000 4955	CRYSTAL,17MHZ
OR	636 036 6862	CRYSTAL,17MHZ
X9150	636 020 4331	CRYSTAL UNIT,28.375MHZ
OR	636 020 4324	CRYSTAL UNIT,28.375MHZ

COMPL,PCB,CA-2

COMPL.NO. 636 037 7714

LOCATION	PARTS NO.	DESCRIPTION
A9601 ⚠	636 038 2671	UNIT,DC-DC CONVERTER
C9601	403 199 3102	ELECT 1000U M 10V

COMPL,PCB,TC-1

COMPL.NO. 636 037 7721

LOCATION	PARTS NO.	DESCRIPTION
C9301	403 192 2508	TA-SOLID 3.3U M 20V
OR	403 202 8902	TA-SOLID 3.3U M 20V
C9302	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9303	403 152 9707	ELECT 22U M 6.3V
C9304	403 192 5905	CERAMIC 0.1U K 25V
C9305	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9306	403 167 0201	TA-SOLID 3.3U M 6.3V
OR	403 202 6908	TA-SOLID 3.3U M 6.3V
C9307	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9308	403 113 3805	CERAMIC 1000P K 50V
C9309	403 113 3805	CERAMIC 1000P K 50V
C9310	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9311	403 169 2807	CERAMIC 330P J 50V
C9312	403 169 2807	CERAMIC 330P J 50V
C9313	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9314	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9315	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9316	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V

LOCATION	PARTS NO.	DESCRIPTION
C9317	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9318	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9319	403 192 0900	TA-SOLID 33U M 6.3V
OR	403 202 7202	TA-SOLID 33U M 6.3V
C9320	403 192 5905	CERAMIC 0.1U K 25V
C9322	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9323	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9324	403 167 1505	TA-SOLID 6.8U M 6.3V
OR	403 216 6406	TA-SOLID 6.8U M 6.3V
C9325	403 167 0201	TA-SOLID 3.3U M 6.3V
OR	403 202 6908	TA-SOLID 3.3U M 6.3V
C9326	403 155 1807	CERAMIC 0.01U K 25V
OR	403 176 0100	CERAMIC 0.01U K 25V
C9327	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9329	403 113 3805	CERAMIC 1000P K 50V
C9330	403 153 9300	CERAMIC 82P J 50V
C9331	403 167 0003	TA-SOLID 4.7U M 4V
OR	403 202 6304	TA-SOLID 4.7U M 4V
C9332	403 167 0201	TA-SOLID 3.3U M 6.3V
OR	403 202 6908	TA-SOLID 3.3U M 6.3V
C9333	403 152 9707	ELECT 22U M 6.3V
C9334	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9335	403 167 0003	TA-SOLID 4.7U M 4V
OR	403 202 6304	TA-SOLID 4.7U M 4V
C9336	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9337	403 139 8303	TA-SOLID 4.7U M 10V
OR	403 203 1001	TA-SOLID 4.7U M 10V
C9338	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9339	403 192 2003	TA-SOLID 4.7U M 16V
OR	403 202 8308	TA-SOLID 4.7U M 16V
C9340	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9342	403 139 8303	TA-SOLID 4.7U M 10V
OR	403 203 1001	TA-SOLID 4.7U M 10V
C9343	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9344	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9345	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9346	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9347	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9348	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9349	403 167 0201	TA-SOLID 3.3U M 6.3V
OR	403 202 6908	TA-SOLID 3.3U M 6.3V
C9352	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9353	403 167 0201	TA-SOLID 3.3U M 6.3V
OR	403 202 6908	TA-SOLID 3.3U M 6.3V
C9354	403 176 3309	CERAMIC 0.22U Z 25V
C9355	403 167 0003	TA-SOLID 4.7U M 4V
OR	403 202 6304	TA-SOLID 4.7U M 4V
C9356	403 157 7302	CERAMIC 6800P K 50V
C9357	403 163 9604	CERAMIC 0.033U Z 25V
C9358	403 155 2101	CERAMIC 1500P K 50V
C9359	403 164 0204	CERAMIC 0.1U Z 25V
OR	403 176 0209	CERAMIC 0.1U Z 25V
C9361	403 157 2901	CERAMIC 47P J 50V

LOCATION	PARTS NO.	DESCRIPTION
C9362	403 157 2901	CERAMIC 47P J 50V
D9301	407 141 2106	DIODE DCJ010-TL
OR	407 130 2605	DIODE MA143A-TX
D9302	407 134 7200	DIODE MA141K-TX
D9303	407 142 3805	ZENER DIODE MA3082WA-TX
D9307	407 134 7200	DIODE MA141K-TX
F9301 ⚠	404 040 5504	CERAMIC 470P M 100V
F9302 ⚠	404 040 5504	CERAMIC 470P M 100V
F9303 ⚠	404 040 5504	CERAMIC 470P M 100V
IC931	409 212 7409	IC LC97000A-376
IC932	410 135 4505	IC S87C51FB-1/R2653
IC934	409 215 6706	IC LB1830M-T1
IC935	409 168 9106	IC BA10358F-T1
IC936	409 111 6008	IC BA225AF-T1
IC937	409 167 7103	IC NJM2107F-TE1
OR	409 267 8406	IC RC2107F(TE1)
IC938	409 167 7103	IC NJM2107F-TE1
OR	409 267 8406	IC RC2107F(TE1)
L9301	636 038 4736	COIL,INDUCTOR 10UH
L9302	636 038 4736	COIL,INDUCTOR 10UH
L9303	636 038 6044	COIL,INDUCTOR 56UH
L9304	636 038 4736	COIL,INDUCTOR 10UH
L9305	636 027 8691	COIL,INDUCTOR 220UH
Q9301	405 087 9500	TR FC101-TL
Q9302	405 087 4604	TR FC102-TL
Q9304	405 087 4604	TR FC102-TL
Q9305	405 087 4604	TR FC102-TL
Q9306	405 087 4604	TR FC102-TL
Q9308	405 102 5609	TR 2SD1819A-R-TX
Q9309	405 061 4101	TR 2SA1434
Q9311	405 102 5500	TR 2SB1218A-R-TX
Q9315	405 102 5203	TR UN5212-TX
Q9316	405 076 5902	TR FMA5-T99
Q9317	405 079 2007	TR FMG8-T99
Q9318	405 087 4604	TR FC102-TL
Q9320	405 102 5609	TR 2SD1819A-R-TX
Q9321	405 102 5609	TR 2SD1819A-R-TX
Q9322	405 087 4604	TR FC102-TL
Q9323	405 102 5500	TR 2SB1218A-R-TX
R9301	401 164 9104	MT-FILM 8.2K DU 1/10W
R9302	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R9303	401 164 8503	MT-FILM 5.1K DU 1/10W
R9304	401 105 0603	MT-GLAZE 10K JA 1/16W
R9305	401 105 5202	MT-GLAZE 470 JA 1/16W
R9306	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9307	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9308	401 105 5905	MT-GLAZE 560 JA 1/16W
R9309	401 105 5905	MT-GLAZE 560 JA 1/16W
R9310	401 105 0702	MT-GLAZE 100K JA 1/16W
R9312	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9313	401 105 5905	MT-GLAZE 560 JA 1/16W
R9314	401 105 5905	MT-GLAZE 560 JA 1/16W
R9315	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R9316	401 105 0504	MT-GLAZE 1K JA 1/16W
R9317	401 105 0504	MT-GLAZE 1K JA 1/16W
R9318	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R9319	401 105 5905	MT-GLAZE 560 JA 1/16W
R9320	401 105 5905	MT-GLAZE 560 JA 1/16W
R9321	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R9322	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9323	401 105 0504	MT-GLAZE 1K JA 1/16W
R9324	401 105 5202	MT-GLAZE 470 JA 1/16W
R9325	401 105 5905	MT-GLAZE 560 JA 1/16W

LOCATION	PARTS NO.	DESCRIPTION
R9326	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9327	401 105 0504	MT-GLAZE 1K JA 1/16W
R9328	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R9329	401 105 5202	MT-GLAZE 470 JA 1/16W
R9330	401 105 4700	MT-GLAZE 39K JA 1/16W
R9331	401 105 5905	MT-GLAZE 560 JA 1/16W
R9332	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R9333	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R9334	401 105 2904	MT-GLAZE 22K JA 1/16W
R9335	401 105 2904	MT-GLAZE 22K JA 1/16W
R9336	401 105 2904	MT-GLAZE 22K JA 1/16W
R9337	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R9338	401 105 2904	MT-GLAZE 22K JA 1/16W
R9339	401 105 0603	MT-GLAZE 10K JA 1/16W
R9340	401 105 4700	MT-GLAZE 39K JA 1/16W
R9341	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R9342	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R9343	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R9344	401 105 3000	MT-GLAZE 220K JA 1/16W
R9345	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9347	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R9348	401 105 0405	MT-GLAZE 100 JA 1/16W
R9349	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R9350	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R9352	401 038 7700	MT-GLAZE 5.6K JA 1/10W
R9353	401 105 0504	MT-GLAZE 1K JA 1/16W
R9354	401 038 9209	MT-GLAZE 6.8K JA 1/10W
R9356	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9357	401 105 2904	MT-GLAZE 22K JA 1/16W
R9367	401 037 6803	MT-GLAZE 12K JA 1/10W
R9368	401 105 0603	MT-GLAZE 10K JA 1/16W
R9369	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R9370	401 105 5202	MT-GLAZE 470 JA 1/16W
R9371	401 039 0403	MT-GLAZE 8.2K JA 1/10W
R9372	401 037 5608	MT-GLAZE 10K JA 1/10W
R9373	401 105 0306	MT-GLAZE 10 JA 1/16W
R9374	401 105 1105	MT-GLAZE 12K JA 1/16W
R9375	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R9376	401 105 0306	MT-GLAZE 10 JA 1/16W
R9380	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R9381	401 105 0603	MT-GLAZE 10K JA 1/16W
R9382	401 105 0603	MT-GLAZE 10K JA 1/16W
R9383	401 105 0504	MT-GLAZE 1K JA 1/16W
R9388	401 105 4205	MT-GLAZE 33K JA 1/16W
R9389	401 105 8203	MT-GLAZE 68K JA 1/16W
R9390	401 105 0702	MT-GLAZE 100K JA 1/16W
R9391	401 105 4304	MT-GLAZE 330K JA 1/16W
R9392	401 105 8104	MT-GLAZE 56K JA 1/16W
R9393	401 105 8203	MT-GLAZE 68K JA 1/16W
R9394	401 105 3505	MT-GLAZE 270K JA 1/16W
R9395	401 105 1204	MT-GLAZE 120K JA 1/16W
R9396	401 105 2201	MT-GLAZE 180K JA 1/16W
R9397	401 105 3000	MT-GLAZE 220K JA 1/16W
R9398	401 105 5509	MT-GLAZE 470K JA 1/16W
R9399	401 105 5400	MT-GLAZE 47K JA 1/16W
R9402	401 105 4700	MT-GLAZE 39K JA 1/16W
R9404	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9405	401 105 0603	MT-GLAZE 10K JA 1/16W
R9406	401 105 0603	MT-GLAZE 10K JA 1/16W
R9407	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9409	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9412	401 105 6704	MT-GLAZE 680K JA 1/16W
R9413	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R9414	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R9415	401 105 7503	MT-GLAZE 82K JA 1/16W
R9416	401 105 1600	MT-GLAZE 15K JA 1/16W
R9417	401 105 1600	MT-GLAZE 15K JA 1/16W
R9418	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9424	401 105 0603	MT-GLAZE 10K JA 1/16W

LOCATION	PARTS NO.	DESCRIPTION
R9425	401 105 0603	MT-GLAZE 10K JA 1/16W
R9431	401 105 7909	MT-GLAZE 0 ZA 1/16W
R9432	401 105 4304	MT-GLAZE 330K JA 1/16W
R9433	401 105 5509	MT-GLAZE 470K JA 1/16W
R9434	401 105 0702	MT-GLAZE 100K JA 1/16W
R9435	401 105 7602	MT-GLAZE 820K JA 1/16W
R9436	401 105 2003	MT-GLAZE 1.8K JA 1/16W
VR932	636 031 0070	VR 100K OHM
VR933	636 031 0070	VR 100K OHM

COMPL,PCB,TC-2

COMPL.NO. 636 037 7738

LOCATION	PARTS NO.	DESCRIPTION
	636 037 9138	HOLDER,LED
A9501	636 025 1557	REMOCON RECEIVER
C9501	403 192 0405	TA-SOLID 10U M 6.3V
OR	403 202 7103	TA-SOLID 10U M 6.3V
D9501	407 078 2903	LED BR3433S
R9501	401 105 0603	MT-GLAZE 10K JA 1/16W
R9503	401 105 5103	MT-GLAZE 47 JA 1/16W
R9504	401 105 5202	MT-GLAZE 470 JA 1/16W
S9501	636 025 2950	SW,PUSH
S9502	636 025 2943	SW,SLIDE
S9503	636 025 2950	SW,PUSH
S9504	636 025 2950	SW,PUSH

COMPL,PCB,VF-1

COMPL.NO. 636 038 1650

LOCATION	PARTS NO.	DESCRIPTION
C0001	403 135 6808	ELECT 1U M 50V
C0002	403 073 1200	CERAMIC 0.033U K 50V
C0004	403 216 2309	MT-COMPO 0.1U J 50V
OR	403 216 0206	MT-COMPO 0.1U J 50V
C0005	403 090 6509	TA-SOLID 33U M 10V
OR	403 090 0101	TA-SOLID 33U M 6.3V
OR	403 217 0502	TA-SOLID 33U M 6.3V
OR	403 217 4302	TA-SOLID 33U M 7V
OR	403 110 3907	TA-SOLID 47U M 10V
OR	403 233 3501	TA-SOLID 47U M 10V
OR	403 229 7605	TA-SOLID 47U M 7V
C0006	403 188 4301	CERAMIC 0.22U M 16V
C0008	403 026 2902	CERAMIC 47P J 50V
C0009	403 067 9809	CERAMIC 0.1U K 25V
C0010	403 067 9809	CERAMIC 0.1U K 25V
C0011	403 167 6104	CERAMIC 3900P K 100V
OR	403 188 5902	CERAMIC 3300P K 100V
C0012	403 163 7907	ELECT 47U M 6.3V
C0013	403 159 8109	ELECT 100U M 6.3V
C0014 ⚠	403 076 8909	CERAMIC 2200P K 1K
OR ⚠	403 076 9302	CERAMIC 2200P Z 1K
OR ⚠	403 199 2105	CERAMIC 2200P Z 1K
C0015	403 167 6203	CERAMIC 0.022U K 100V
C0016 ⚠	403 076 8909	CERAMIC 2200P K 1K
OR ⚠	403 076 9302	CERAMIC 2200P Z 1K
OR ⚠	403 199 2105	CERAMIC 2200P Z 1K
C0017	403 167 7002	ELECT 4.7U M 50V
C0018	403 204 4803	ELECT 100U M 10V
C0020	403 033 9000	CERAMIC 820P J 50V
OR	403 031 2201	CERAMIC 680P J 50V
OR	403 028 9909	CERAMIC 560P J 50V
OR	403 026 7600	CERAMIC 470P J 50V
OR	403 024 7206	CERAMIC 390P J 50V
OR	403 023 4503	CERAMIC 330P J 50V

LOCATION	PARTS NO.	DESCRIPTION
C0020	403 010 1102	CERAMIC 1000P J 50V
D0001	407 069 4909	DIODE DSB010
D0003	407 066 8207	DIODE SB02-09CP
D0004	407 124 9009	DIODE ERA34-10
IC001	409 174 0708	IC AN2512S-(T1)
L0002 ⚠	636 031 4979	COIL,LINEARYTY
L0003 ⚠	636 038 1902	COIL,INDUCTOR 270UH
Q0001 ⚠	405 080 1907	TR 2SD1615-T1-GK
Q0002	405 043 8905	TR 2SA1257-G5
OR	405 043 8806	TR 2SA1257-G4
R0001	401 037 5707	MT-GLAZE 100K JA 1/10W
R0002	401 037 5806	MT-GLAZE 1M JA 1/10W
R0003	401 038 2101	MT-GLAZE 2.7K JA 1/10W
R0004	401 037 5202	MT-GLAZE 100 JA 1/10W
R0005	401 038 6000	MT-GLAZE 43K JA 1/10W
R0006	401 090 2002	MT-GLAZE 3.9 JA 1/10W
R0009	401 037 8203	MT-GLAZE 1.5M JA 1/10W
R0011	401 089 2907	MT-GLAZE 4.7K GA 1/10W
R0012	401 157 8008	MT-GLAZE 18K GA 1/10W
R0013	401 038 3900	MT-GLAZE 3.3M JA 1/10W
R0014	401 037 7008	MT-GLAZE 1.2M JA 1/10W
R0015	401 037 5806	MT-GLAZE 1M JA 1/10W
R0016 ⚠	401 037 6902	MT-GLAZE 120K JA 1/10W
R0017	401 037 7008	MT-GLAZE 1.2M JA 1/10W
R0020	401 038 1807	MT-GLAZE 27 JA 1/10W
R0021	401 038 3504	MT-GLAZE 330 JA 1/10W
R0022	401 038 9308	MT-GLAZE 68K JA 1/10W
R0023	401 037 7701	MT-GLAZE 15 JA 1/10W
T0001 ⚠	636 036 3502	TRANS,FLYBACK
VR001	636 031 5013	VR,SEMI 47K OHM
VR002	636 031 4993	VR,SEMI 220 OHM
VR004	636 035 3848	VR,SEMI 2.2M OHM
VR005	636 035 4302	VR,SEMI 470K OHM

067.049.7

SCHEMATIC DIAGRAM
&
PRINTED WIRING BOARD

VM-D66P (SANYO)
VM-D68P (SANYO)
FVC-P730 (FISHER)

CONTENTS

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- The voltage shown in red on the circuit diagram is obtained by measurement using a digital voltmeter.
- Note that parts shown with "CAN" below the location No. in the circuit diagram are not used.
- Safety precautions:
  Parts marked with ⚠ are important for ensuring safety. Therefore, never replace any of these parts with a part of a number other than the corresponding specified part No.
- When any part has become necessary to be replaced, refer to the parts list.
- The resistance is expressed in Ω.
- The capacity is expressed in μF unless otherwise specified.
  However, "P" indicates pF.
  For the electrolytic capacitors, the withstanding voltage (V) is shown.
- The inductance is expressed in mH unless otherwise specified. However, "μ" indicates μH.
- Cautions related to pattern diagram
  Side A: Shown the parts viewed from the pattern on the side A. (The pattern on the side A is shown in red.)
  Side B: Shows the parts viewed from the pattern on the side B. (The pattern on the side B is shown in black.)

But inner two layer's patterns are not shown.

Note:
The circuit and pattern diagrams are prepared for the initial stage of mass production.
Therefore, they may be subject to change for improvement.

NOTE :

The VKR2721(UNIVERSUM brand) and VKR2721(REVUE brand) are the same as the VM-D66P and VM-D68P except following parts. The number of pages are for VM-D66P and VM-D68P. Since the parts codes are partly different according to the brands , they are distinguished by describing the brand name in parentheses of "Description".

	Page & Section	Key No.	Part No.	Description
ACCESSORIES	1	–	636 039 0850	CORR CASE INNER (UNIVERSUM)
		–	636 039 0942	CORR CASE INNER (REVUE)
	1	–	636 039 0782	INSTRUCTION MANUAL (UNIVERSUM)
		–	636 039 1000	INSTRUCTION MANUAL (REVUE)
	1	–	636 039 0935	ADAPTER,AC (UNIVERSUM)
		–	636 039 0928	ADAPTER,AC (REVUE)
	1	–	636 039 0621	REMOCON,WIRELESS SRN TN(UNIVERSUM)
		–	636 039 0768	REMOCON,WIRELESS SRN TN(REVUE)
	1	–	636 038 0271	CABLE,DC OUT (UNIVERSUM,REVEW)
	OR	–	636 039 5145	CABLE,DC OUT (UNIVERSUM,REVUE)
	1	–	636 024 7239	CABLE,RF (UNIVERSUM,REVUE)
	1	–	636 032 0987	ADAPTOR,RF (UNIVERSUM,REVUE)
	1	–	636 036 0662	ASSY,BELT (UNIVERSUM,REVUE)
CABINET 1	2	2	636 039 1406	ASSY,CABINET,TOP (UNIVERSUM)
			636 039 2144	ASSY,CABINET,TOP (REVUE)
	2	5	636 039 1437	ASSY,DOOR (UNIVERSUM)
			636 039 2151	ASSY,DOOR (REVUE)
	2	9	636 039 1376	ASSY,CABINET,LEFT (UNIVERSUM,REVUE)
CABINET 3	4	18	636 039 1451	ASSY,BELT (UNIVERSUM)
			636 039 1611	ASSY,BELT (REVUE)
	4	20	636 039 1390	COMPL,CABINET,RIGHT (UNIVERSUM)
			636 039 2137	COMPL,CABINET,RIGHT (REVUE)

SANYO Electric Co., Ltd.
Osaka, Japan

Oct./'91/3400 NS Printed in Japan

067.049.7

SANYO

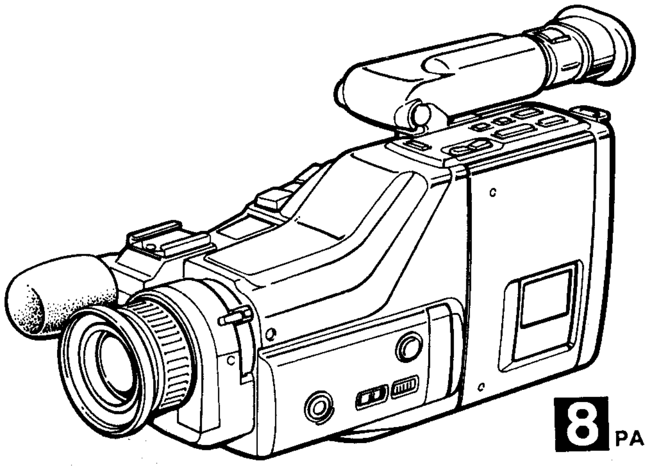
SERVICE MANUAL

8 mm Camcorder

VM-D66P
(GERMANY, SWITZERLAND,
ITALY, U.K., MIDDLE EAST,
AUSTRALIA.)

11. Dez. 1991

VM-D68P
(SPAIN)



8 PAL

Specifiacations

Television system	PAL, CCIR
Video recording system	Rotating 2-head helical-scan FM, color under system
Audio recording system	Rotating head FM system
Cassette type	8 mm video tape cassette
Tape speed	SP : 20.051 mm/sec. LP : 10.025 mm/sec.
Recording/ playback time	180 minutes (P5-90 cassette)
Fast forward/rewind time	Approx. 6.5 minutes (P5-90 cassette)
Pickup element	CCD solid-state type
Viewfinder	Electronic (0.7 inch type, black and white)
Lens	Electro powered-8X zoom lens f =7mm ~ 56mm F1.4 Close-up function (15mm ~ 1.2m). Automatic focus Filter diameter 49 mm
White balance adjustment	Automatic
Minimum subject illumination	4 lux
Subject illumination range	4 lux ~ 100,000 lux
Recommended subject illumination	300 lux or more
Power supply voltage	DC input 6V/ 6.5V/ 7.5V/ 9V
Power consumption	5.3W during camera recording
Operation temperature range	0°C ~ 40°C (32°F ~ 104°F)
Storage temperature range	− 20°C ~ +60°C (− 4°F ~ 140°F)
External dimensions (W × H × D)	118mm × 153mm × 302mm
Weight (approximately) (not including battery pack and cassette)	1.0 kg
Microphone	Electret condenser type (omnidirectional)
VIDEO terminal	Video output 1 Vp-p, 75Ω unbalanced, negative sync
AUDIO terminal	Audio output − 7 dBs, 2.2kΩ or less
Microphone jack	Mini jack, − 66 dBs For low-impedance microphone
Earphone jack	Mini jack, for 8Ω earphone

VM-66P
PRODUCTION CODE No.
126 022 00 (GERMANY)
126 022 03 (SWITZERLAND)
126 022 06 (ITALY)
126 022 07 (U.K.)
126 022 04 (MIDDLE EAST)
126 022 08 (AUSTRALIA)

VM-E68P
PRODUCTION CODE No.
126 022 05 (SPAIN)

- Specifications and external appearance are subject to change without notice.

ER90P/G, SW, I, E, ME, A, SP

REFERENCE NO. WM-550157

SPECIFICATIONS

Television system	PAL, CCIR
Video recording system	Rotating 2-head helical-scan FM, color under system
Audio recording system	Rotating head FM system
Cassette type	8 mm video tape cassette
Tape speed	SP : 20.051 mm/sec. LP : 10.025 mm/sec.
Recording/ playback time	180 minutes (P5-90 cassette)
Fast forward/rewind time	Approx. 6.5 minutes (P5-90 cassette)
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Viewfinder	Electronic (0.7 inch type, black and white)
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White balance adjustment	Automatic
Minimum subject illumination	4 lux
Subject illumination range	4 lux ~ 100,000 lux
Recommended subject illumination	300 lux or more

Power supply voltage	DC input 6V/ 6.5V/ 7.5V/ 9V
Power consumption	5.3W during camera recording
Operation temperature range	0°C ~ 40°C (32°F ~ 104°F)
Storage temperature range	– 20°C ~ +60°C (– 4°F ~ 140°F)
External dimensions (W × H × D)	118mm × 153mm × 302mm
Weight (approximately) (not including battery pack and cassette)	1.0 kg
Microphone	Electret condenser type (omnidirectional)
VIDEO terminal	Video output 1 Vp-p, 75Ω unbalanced, negative sync
AUDIO terminal	Audio output – 7 dBs, 2.2kΩ or less
Microphone jack	Mini jack, – 66 dBs For low-impedance microphone
Earphone jack	Mini jack, for 8Ω earphone

● Because its products are subject to continual improvement, Fisher reserves the right to modify product designs and specifications without notice and without incurring any obligation.

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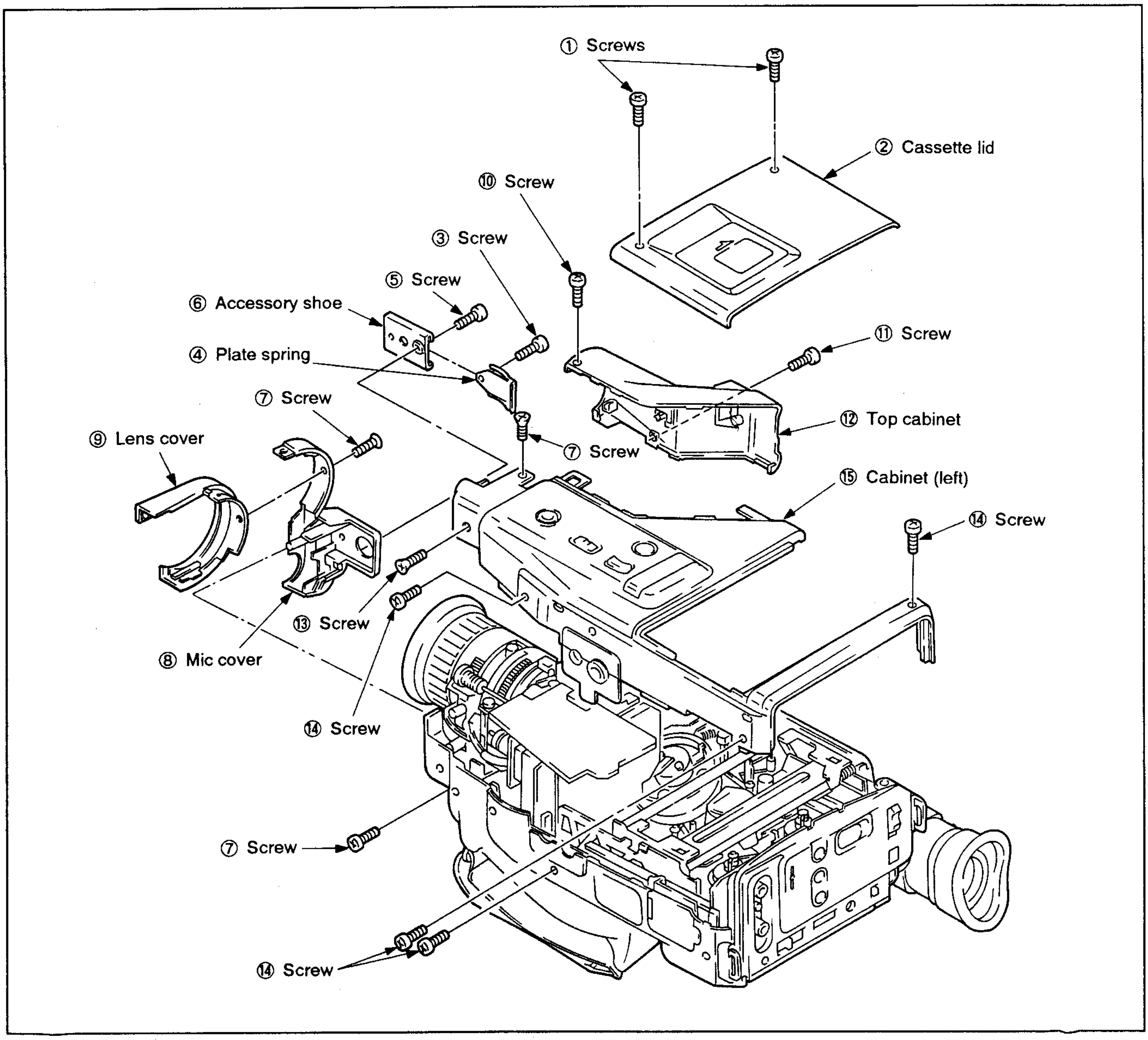
As for mechnism, refer to the ADJUSTMENT MANUAL in U'MECHANISM of MECHANISM SERVICE TECHNICAL INFORMATION.

1. DISASSEMBLY

1-1. REMOVAL OF CASSETTE LID, CABINET(LEFT)

1) Remove the two screws ①, and the cassette lid ②.
2) Remove the screw ③, and the plate spring ④.
3) Remove the screw ⑤, and the accessory shoe ⑥.
4) Remove the three screws ⑦, rotate the manual zoom lever fully to the wide range position to remove the mic cover ⑧ and the lens cover ⑨.
5) Remove the screws⑩ and⑪, and the TOP cabinet⑫.
6) Remove the screw ⑬ the four screws ⑭ securing the cabinet (left), and remove the cabinet (left) ⑮.



① Screws
② Cassette lid
⑩ Screw
③ Screw
⑤ Screw
⑥ Accessory shoe
⑪ Screw
④ Plate spring
⑦ Screw
⑫ Top cabinet
⑨ Lens cover
⑦ Screw
⑮ Cabinet (left)
⑭ Screw
⑬ Screw
⑧ Mic cover
⑭ Screw
⑦ Screw
⑭ Screw

Fig. 1-1.

1-2. REMOVAL OF CAMERA SECTION ASSEMBLY

1) Remove the microphone ①.
2) Remove the screws ② and ③ securing the camera block, and remove the FPC ④ connecting between the DM1 board and VTR block (SY2 board).
3) Lift up the camera block assembly ⑤ a little, and remove the four connectors from the VTR block. (Before removing, take notes of the connected positions.)
4) Separate the camera block assembly ⑤ completely.

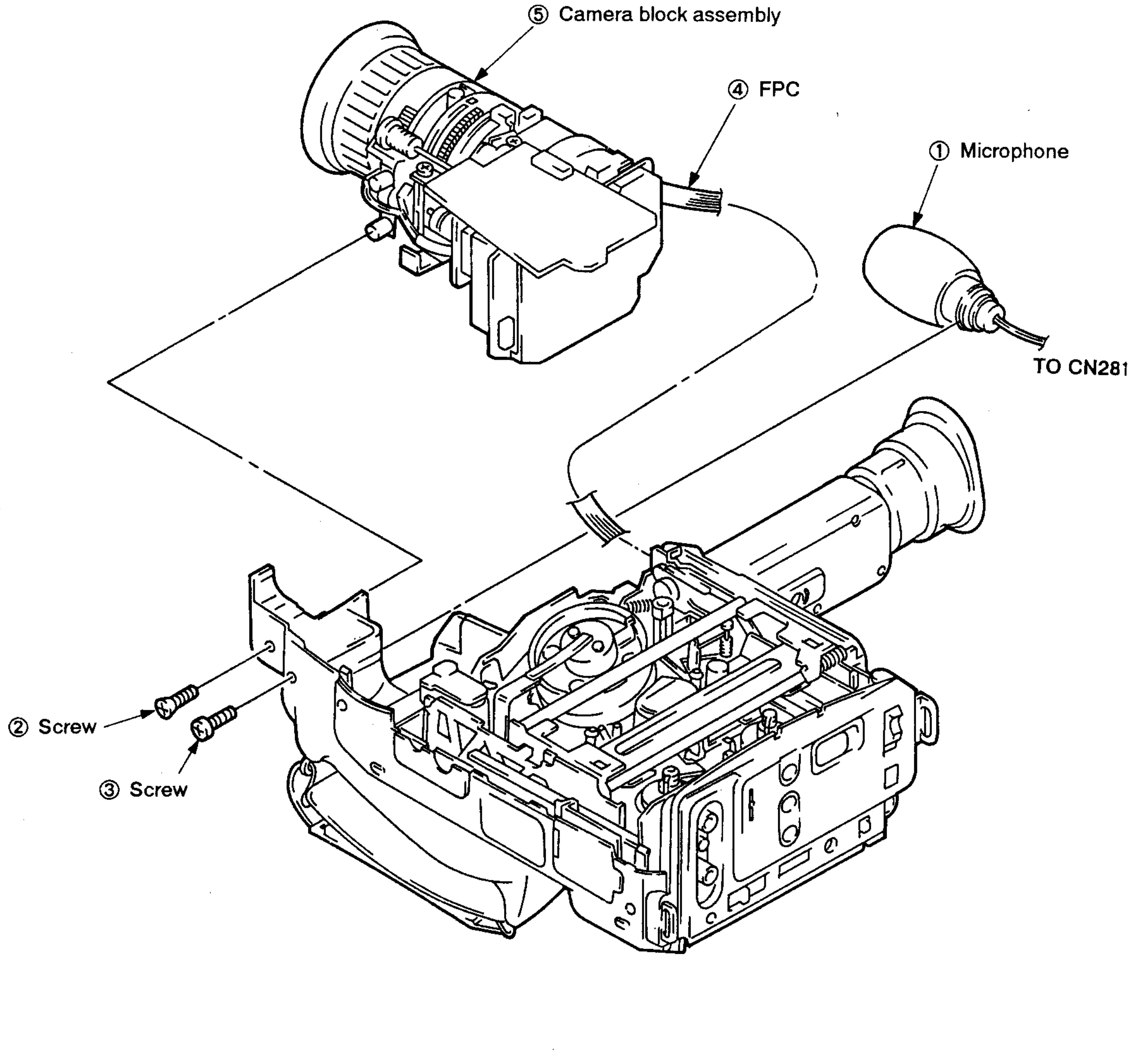

⑤ Camera block assembly
④ FPC
① Microphone
TO CN281
② Screw
③ Screw

Fig. 1-2.

1-3. REMOVAL OF VTR BLOCK ASSEMBLY AND CABINET(RIGHT)

1) Remove the two screws ① securing the viewfinder block assembly.
2) Remove the connector ② connecting between the viewfinder block assembly and VTR block assembly to separate the viewfinder block assembly ③.
3) Remove the two screws ④ and the screws ⑤, ⑥.
4) Remove the lithium battery holder ⑦.
5) Remove the screw ⑧ and screw ⑨ securing the VTR block.
6) Remove the connector ⑩ connected to CN173 on the DM1 board by lifting up the VTR block assembly ⑪, and separate from cabinet (right) ⑫ completely.

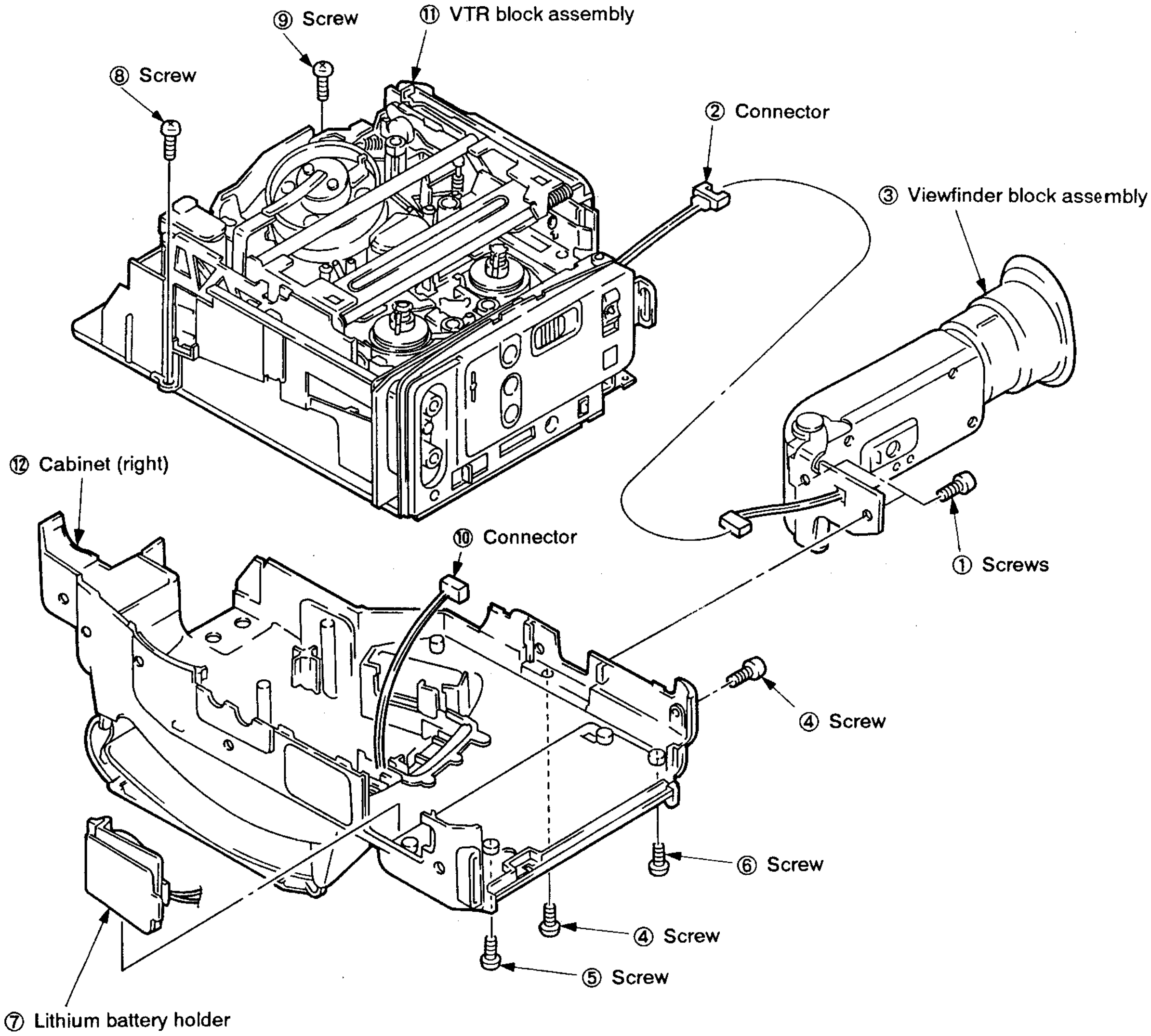

⑨ Screw
⑪ VTR block assembly
⑧ Screw
② Connector
③ Viewfinder block assembly
⑫ Cabinet (right)
⑩ Connector
① Screws
④ Screw
⑥ Screw
④ Screw
⑤ Screw
⑦ Lithium battery holder

Fig. 1-3.

1-4. REMOVAL OF VTR OPERATION PANEL AND BACK OPERATION PANEL

1) Remove the VTR operation panel ① from the back operation panel ②.
2) Remove the back operation panel ② from the VTR block.

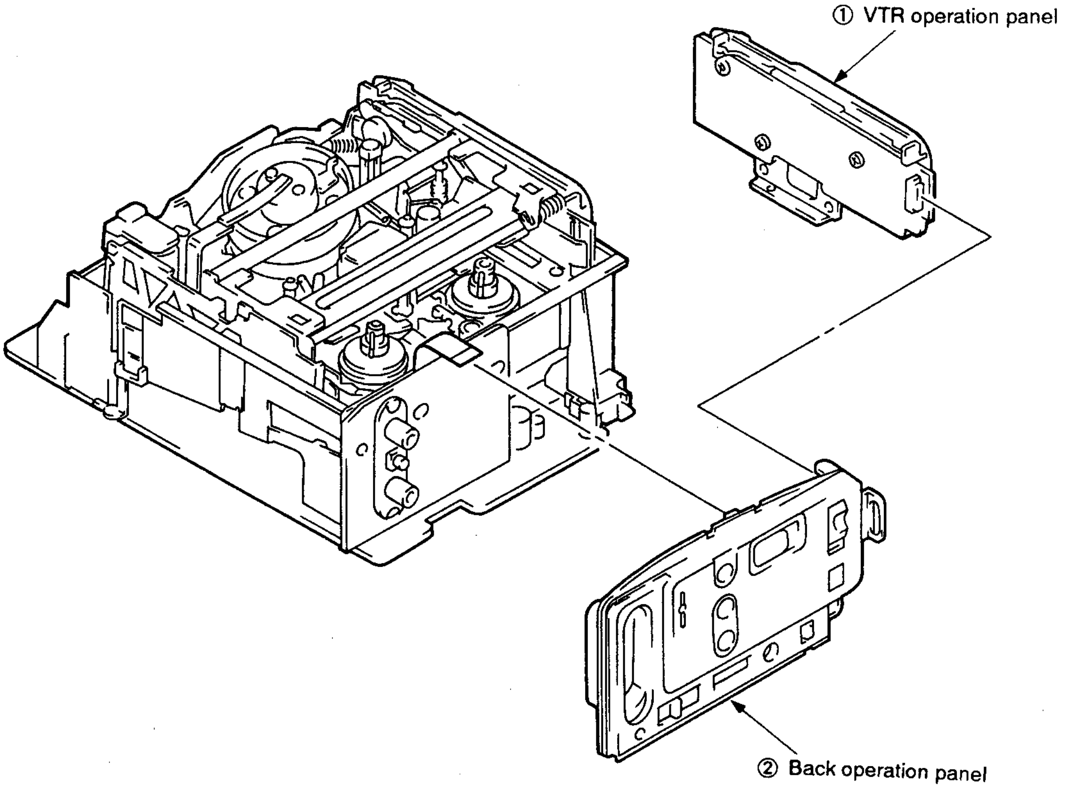
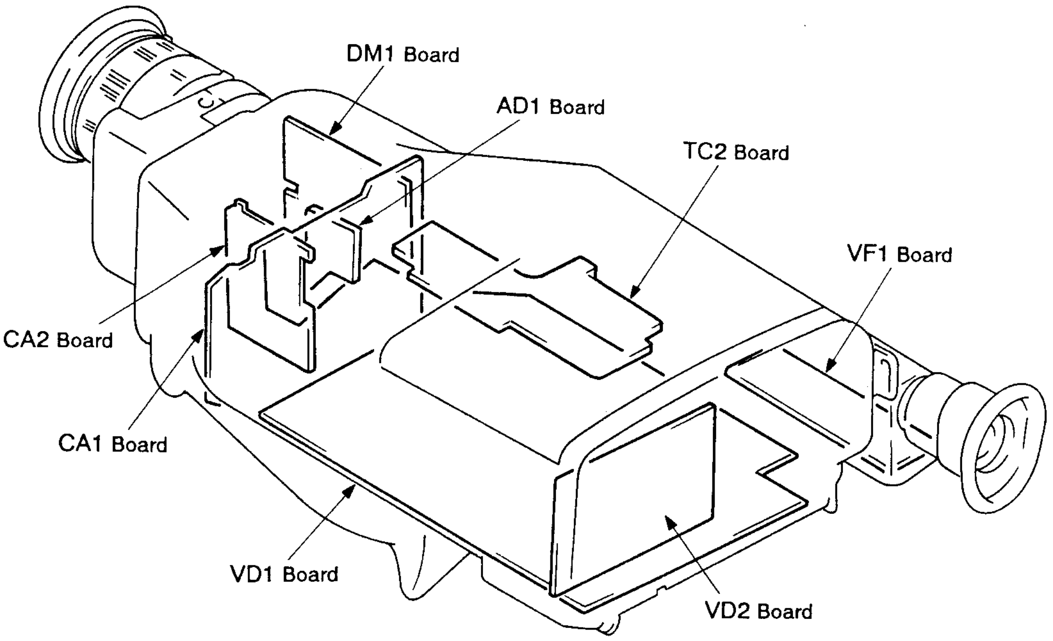
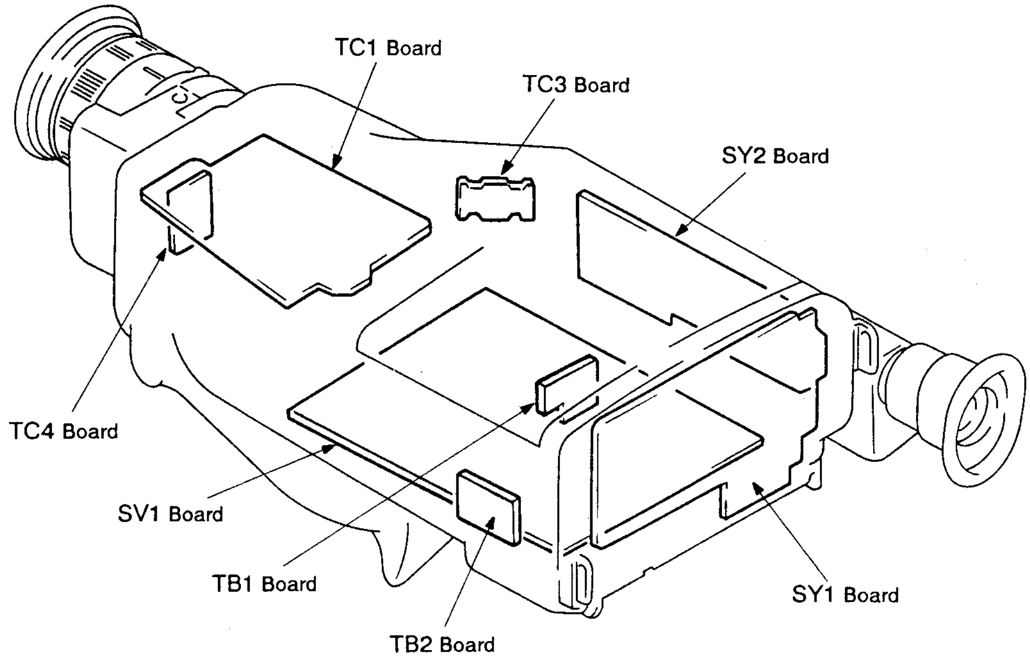

① VTR operation panel
② Back operation panel

Fig. 1-4.

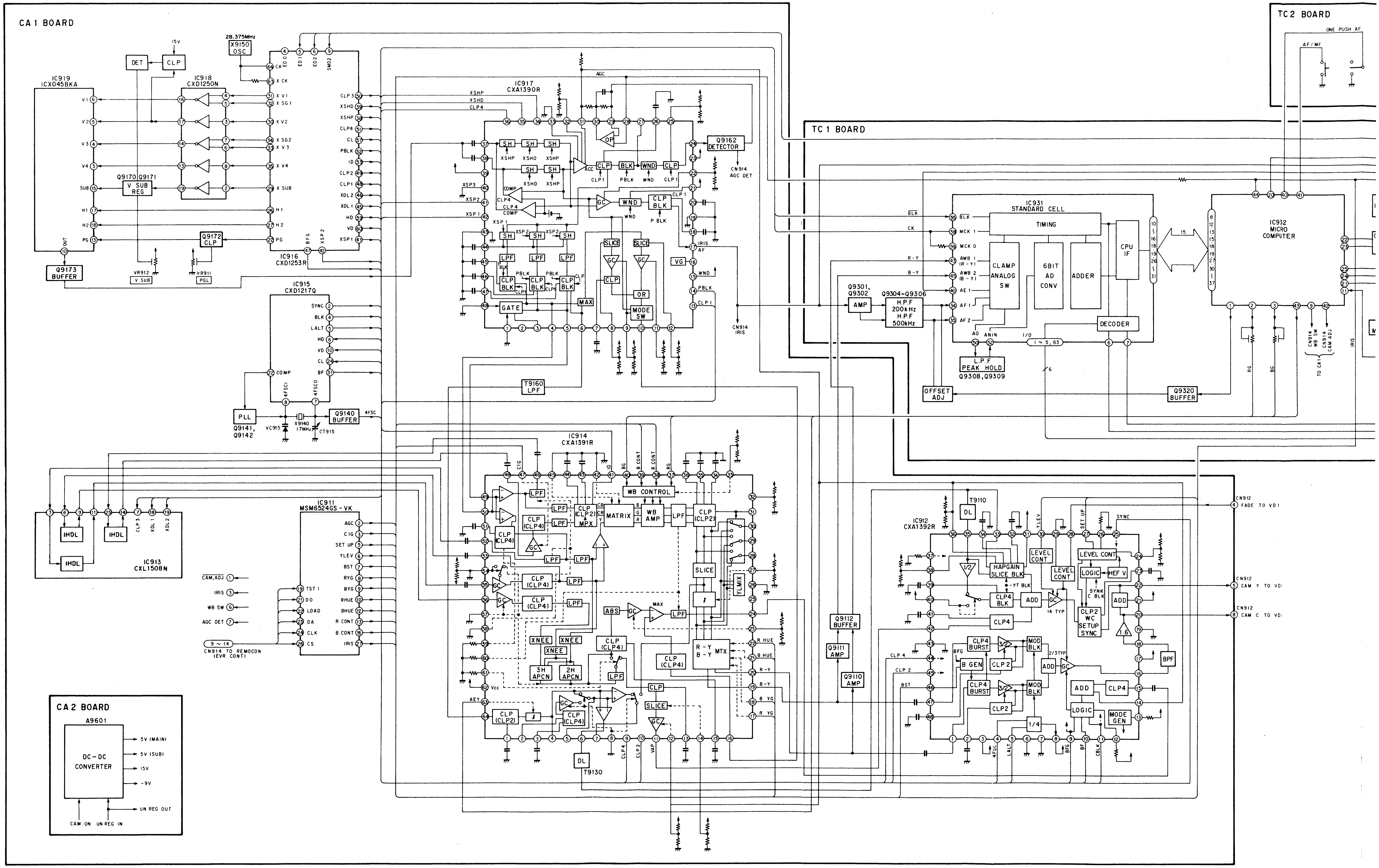
2. BLOCK DIAGRAM

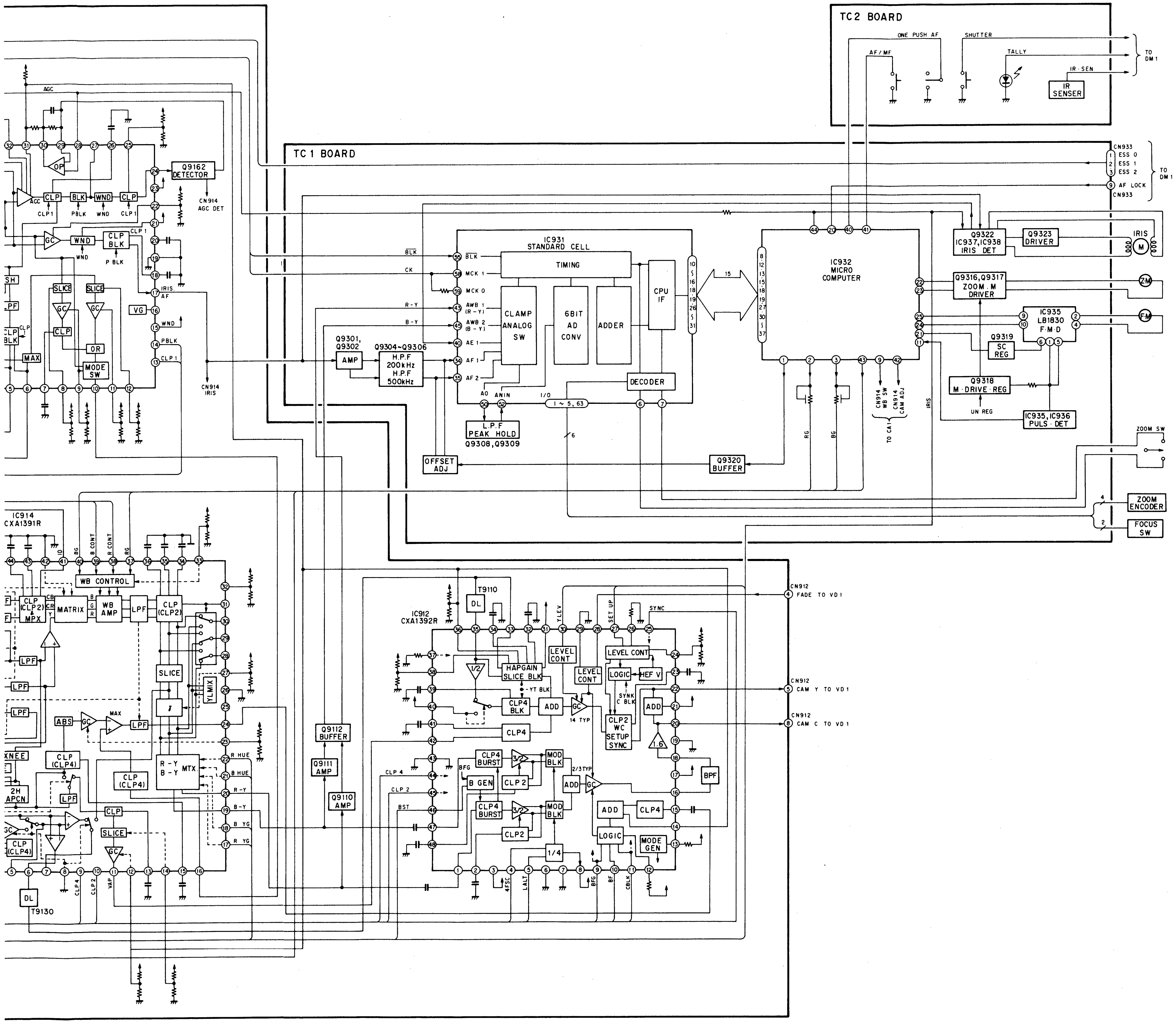
2-1. BOARD LOCATION


DM1 Board
AD1 Board
TC2 Board
VF1 Board
CA2 Board
CA1 Board
VD1 Board
VD2 Board


TC1 Board
TC3 Board
SY2 Board
TC4 Board
SV1 Board
TB1 Board
TB2 Board
SY1 Board

2-2. CAMERA BLOCK DIAGRAM

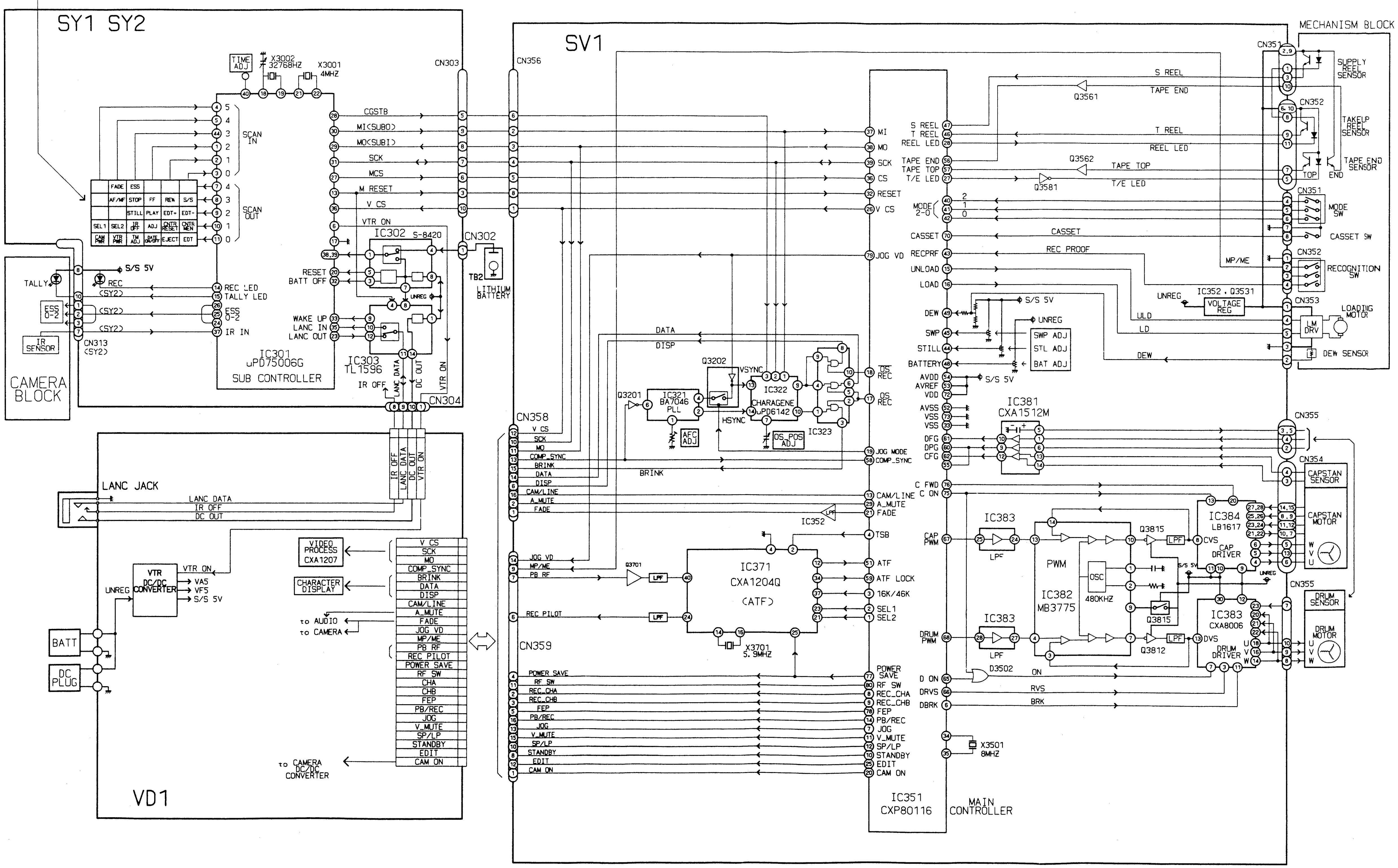

CA1 BOARD
IC919
ICX045BKA
IC918
CXD1250N
DET
CLP
15V
28.375MHz
X9150
OSC
Q9170 Q9171
V SUB
REG
Q9172
CLP
Q9173
BUFFER
VR912
V SUB
VR911
PGL
IC916
CXD1253R
IC915
CXD1217Q
PLL
Q9141,
Q9142
VC915
X9140
17MHz
CT915
Q9140
BUFFER
4FSC
IC917
CXA1390R
SH
XSHP
XSHD
CLP
BLK
WND
Q9162
DETECTOR
CN914
AGC DET
COMP
GC
SLICE
OR
MODE
SW
VG
GATE
MAX
T9160
LPF
CN914
IRIS
IC914
CXA1391R
WB CONTROL
MATRIX
WB
AMP
MPX
YLMIX
ABS
XNEE
3H
APCN
2H
APCN
R-Y
B-Y
MTX
R HUE
B HUE
R YG
B YG
DL
T9130
IC913
CXL1508N
IHDL
IC911
MSM6524GS-VK
AGC
CIG
SET UP
YLEV
BST
RYG
BYG
RHUE
BHUE
R CONT
B CONT
IRIS
TST 1
DO
LOAD
DA
CLK
CS
CAM.ADJ
IRIS
WB SW
AGC DET
9 ~ 14
CN914 TO REMOCON
(EVR CONT)
CA2 BOARD
A9601
DC-DC
CONVERTER
5V (MAIN)
5V (SUB)
15V
-9V
UN REG OUT
CAM.ON
UN REG IN
TC2 BOARD
ONE PUSH AF
AF/MF
TC1 BOARD
IC931
STANDARD CELL
TIMING
CLAMP
ANALOG
SW
6BIT
AD
CONV
ADDER
CPU
IF
DECODER
Q9301,
Q9302
AMP
Q9304~Q9306
H.P.F
200kHz
H.P.F
500kHz
L.P.F
PEAK HOLD
Q9308,Q9309
OFFSET
ADJ
Q9320
BUFFER
IC932
MICRO
COMPUTER
CN914
WB SW
CN914
CAM ADJ
TO CA1
IRIS
Q9112
BUFFER
Q9111
AMP
Q9110
AMP
IC912
CXA1392R
T9110
DL
HAPGAIN
SLICE BLK
LEVEL
CONT
LEVEL CONT
LOGIC
HEF V
ADD
CLP4
BLK
CLP2
WC
SETUP
SYNC
BURST
MOD
B GEN
BPF
MODE
GEN
1/4
1/2
1.6
CN912
FADE TO VD1
CN912
CAM Y TO VD1
CN912
CAM C TO VD1

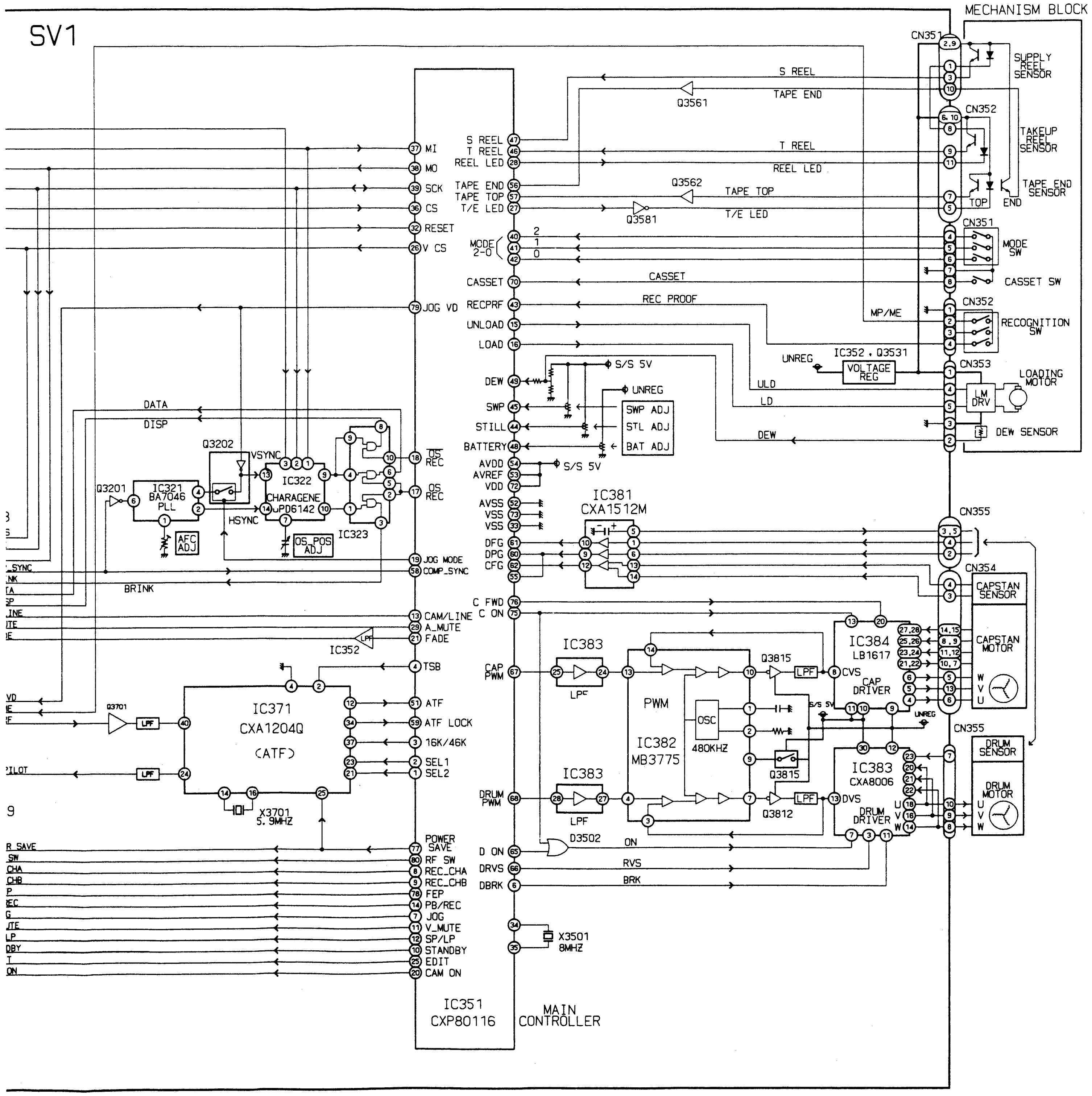

TC2 BOARD
ONE PUSH AF
SHUTTER
TALLY
AF/MF
IR·SEN
IR SENSER
TO DM1
TC1 BOARD
CN933
ESS 0
ESS 1
ESS 2
AF LOCK
AGC
Q9162 DETECTOR
CN914 AGC DET
CLP
BLK
WND
CLP 1
PBLK
GC
CLP BLK
P BLK
IRIS
AF
SLICE
VG
OR
MODE SW
MAX
WND
CLP 1
CN914 IRIS
IC931 STANDARD CELL
TIMING
BLK
MCK 1
MCK 0
AWB 1 (R-Y)
AWB 2 (B-Y)
AE 1
AF 1
AF 2
CLAMP ANALOG SW
6BIT AD CONV
ADDER
CPU IF
DECODER
A0
AMIN
I/O
1 ~ 5, 63
L.P.F PEAK HOLD
Q9308, Q9309
Q9301, Q9302
AMP
Q9304~Q9306
H.P.F 200kHz
H.P.F 500kHz
CK
R-Y
B-Y
OFFSET ADJ
Q9320 BUFFER
15
IC932 MICRO COMPUTER
CN914 WB SW
CN914 CAM ADJ
TO CA1
RG
BG
IRIS
Q9322 IC937, IC938 IRIS DET
Q9323 DRIVER
IRIS
M
Q9316, Q9317 ZOOM·M DRIVER
ZM
IC935 LB1830 F·M·D
FM
Q9319 SC REG
Q9318 M·DRIVE·REG
UN REG
IC935, IC936 PULS·DET
ZOOM SW
ZOOM ENCODER
FOCUS SW
IC914 CXA1391R
BG
B CONT
R CONT
RG
WB CONTROL
CLP (CLP2)
MPX
MATRIX
WB AMP
LPF
CLP (CLP2)
SLICE
YLMIX
ABS
GC
KNEE
CLP (CLP4)
2H APCN
LPF
R-Y
B-Y
MTX
CLP (CLP4)
CLP
SLICE
R HUE
B HUE
R-Y
B-Y
B YG
R YG
DL
T9130
CLP 4
CLP 2
VAP
Q9112 BUFFER
Q9111 AMP
Q9110 AMP
IC912 CXA1392R
T9110
DL
YLEV
SET UP
SYNC
1/2
HAPGAIN SLICE BLK
YT BLK
LEVEL CONT
LEVEL CONT
LOGIC
HEF V
CLP4 BLK
ADD
GC
14 TYP
SYNK C BLK
CLP2 WC SETUP SYNC
ADD
1.6
CLP4
CLP4 BURST
BFG
B GEN
CLP 2
MOD BLK
2/3TYP
ADD
GC
BPF
CLP4 BURST
CLP2
MOD BLK
1/4
ADD
CLP4
LOGIC
MODE GEN
CLP 4
CLP 2
BST
4FSC
LALT
BFG
BF
CBLK
CN912 FADE TO VD1
CN912 CAM Y TO VD1
CN912 CAM C TO VD1

2-3. SERVO/SYSTEM CONTROL BLOCK DIAGRAM

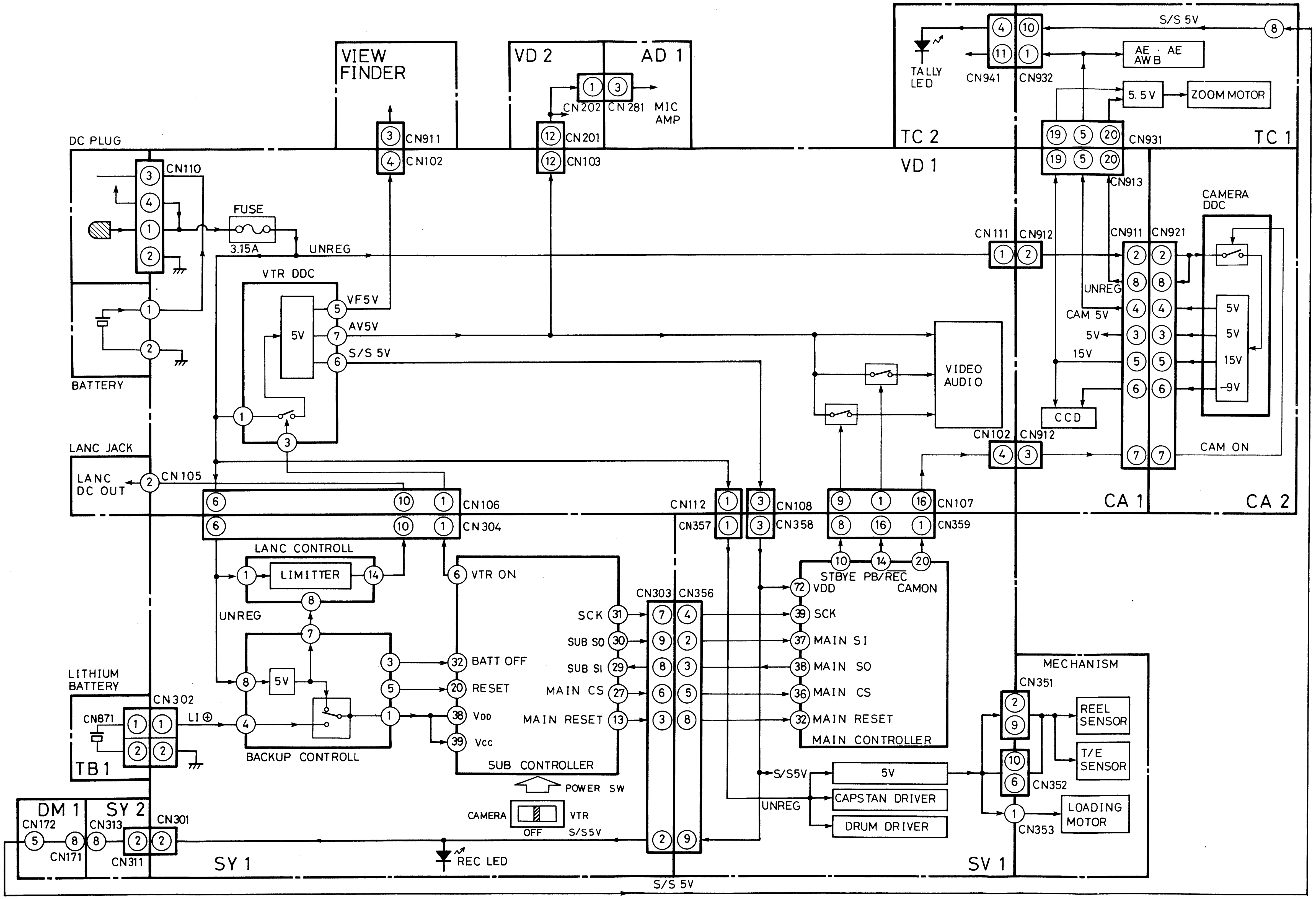
Each key(SW) is located
on PC Board shown by Table below

	CA	CA			
	CA	SY2	SY2	SY2	SY2 TB1
		SY2	SY2	SY2	SY2
SY1	SY1	VD1	SY1 CN305	SY1	SY1
SY1	SY1	SY1	SY1	SY1	SY1

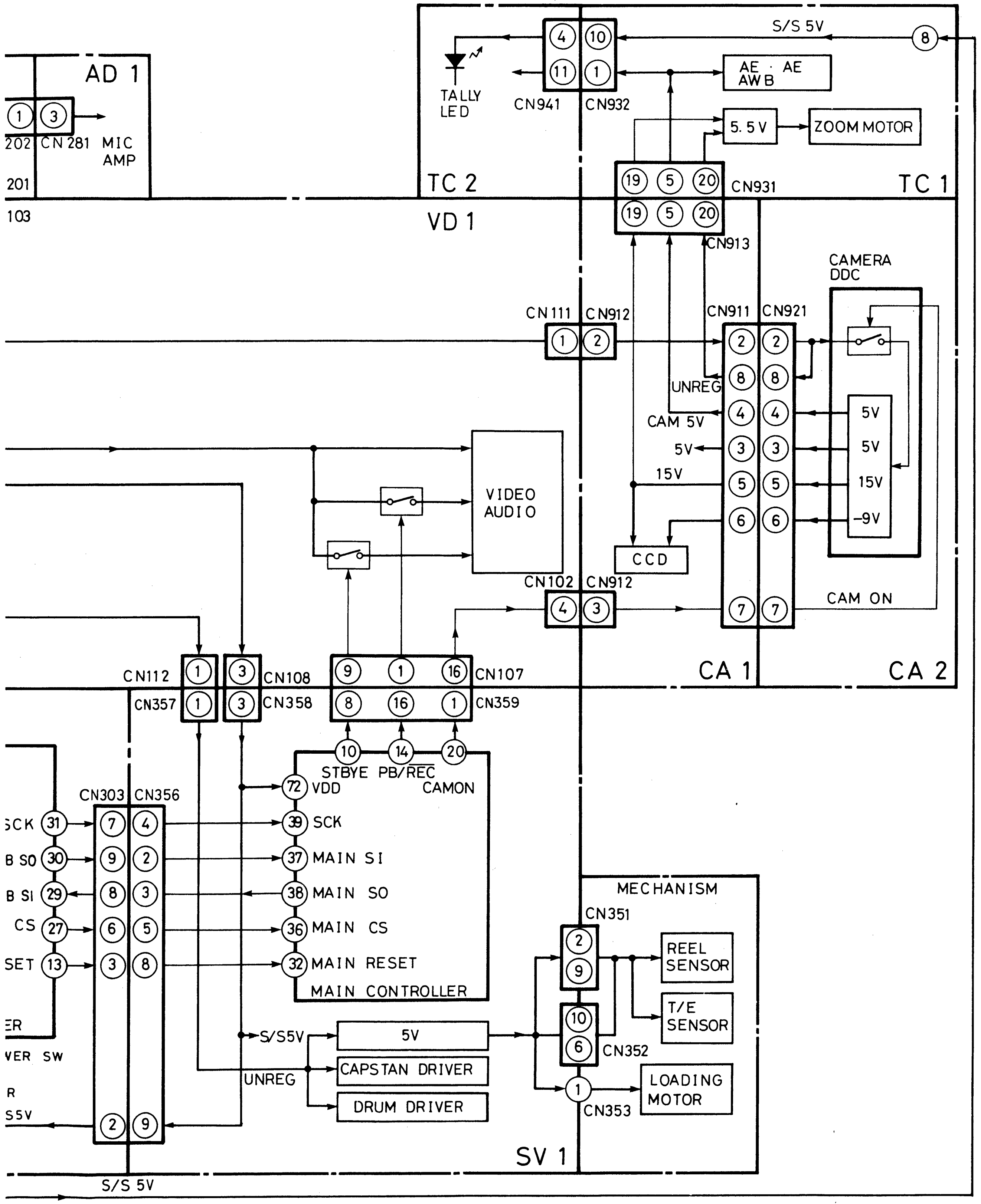

SY1 SY2
TIME ADJ
X3002 32768HZ
X3001 4MHZ
CN303
SCAN IN
SCAN OUT
FADE
ESS
AF/MF
STOP
FF
REW
S/S
STILL
PLAY
EDT+
EDT-
SEL1
SEL2
IR OFF
ADJ
CNTR RESET
CNTR MEM
CAM PWR
VTR PWR
TM ADJ
EJECT
EDT
CGSTB
MI(SUBO)
MO(SUBI)
SCK
MCS
M RESET
V CS
VTR ON
IC302 S-8420
CN302
TB2
LITHIUM BATTERY
RESET
BATT OFF
REC LED
TALLY LED
ESS 0-2
IR IN
WAKE UP
LANC IN
LANC OUT
IC301 uPD75006G
SUB CONTROLLER
IC303 TL1596
IR OFF
LANC DATA
DC OUT
VTR ON
CN304
TALLY
REC (SY2)
ESS 0-2
IR SENSOR
CN313 (SY2)
S/S 5V
CAMERA BLOCK
LANC JACK
LANC DATA
IR OFF
DC OUT
VTR DC/DC CONVERTER
UNREG
VA5
VF5
S/S 5V
BATT
DC PLUG
VIDEO PROCESS CXA1207
CHARACTER DISPLAY
to AUDIO
to CAMERA
to CAMERA DC/DC CONVERTER
V CS
SCK
MO
COMP_SYNC
BRINK
DATA
DISP
CAM/LINE
A_MUTE
FADE
JOG VD
MP/ME
PB RF
REC PILOT
POWER SAVE
RF SW
CHA
CHB
FEP
PB/REC
JOG
V_MUTE
SP/LP
STANDBY
EDIT
CAM ON
VD1
SV1
CN356
CN358
CN359
DATA
DISP
BRINK
Q3201
IC321 BA7046 PLL
AFC ADJ
Q3202
VSYNC
HSYNC
IC322 CHARAGENE uPD6142
OS POS ADJ
IC323
IC352
IC371 CXA1204Q (ATF)
Q3701
LPF
X3701 5.9MHZ
MI
MO
SCK
CS
RESET
V CS
JOG VD
OS REC
DS REC
JOG MODE
COMP_SYNC
CAM/LINE
A_MUTE
FADE
TSB
ATF
ATF LOCK
16K/46K
SEL1
SEL2
POWER SAVE
RF SW
REC_CHA
REC_CHB
FEP
PB/REC
JOG
V_MUTE
SP/LP
STANDBY
EDIT
CAM ON
IC351 CXP80116
MAIN CONTROLLER
X3501 8MHZ
S REEL
T REEL
REEL LED
TAPE END
TAPE TOP
T/E LED
MODE 2-0
CASSET
RECPRF
UNLOAD
LOAD
DEW
SWP
STILL
BATTERY
AVDD
AVREF
VDD
AVSS
VSS
DFG
DPG
CFG
C FWD
C ON
CAP PWM
DRUM PWM
D ON
DRVS
DBRK
Q3561
Q3562
Q3581
REC PROOF
MP/ME
UNREG
IC352, Q3531 VOLTAGE REG
ULD
LD
S/S 5V
SWP ADJ
STL ADJ
BAT ADJ
IC381 CXA1512M
IC383
IC382 MB3775
PWM
OSC
480KHZ
Q3815
Q3812
D3502
ON
RVS
BRK
IC384 LB1617
CAP DRIVER
IC383 CXA8006
DRUM DRIVER
CVS
DVS
MECHANISM BLOCK
CN351
CN352
CN353
CN354
CN355
SUPPLY REEL SENSOR
TAKEUP REEL SENSOR
TAPE END SENSOR
TOP
END
MODE SW
CASSET SW
RECOGNITION SW
LOADING MOTOR
LM DRV
DEW SENSOR
CAPSTAN SENSOR
CAPSTAN MOTOR
DRUM SENSOR
DRUM MOTOR
U
V
W


SV1
MECHANISM BLOCK
CN351
SUPPLY REEL SENSOR
CN352
TAKEUP REEL SENSOR
TAPE END SENSOR
TOP
END
MODE SW
CASSET SW
RECOGNITION SW
CN353
LOADING MOTOR
LM DRV
DEW SENSOR
CN355
CN354
CAPSTAN SENSOR
CAPSTAN MOTOR
DRUM SENSOR
DRUM MOTOR
S REEL
TAPE END
Q3561
T REEL
REEL LED
Q3562
TAPE TOP
T/E LED
Q3581
CASSET
REC PROOF
MP/ME
UNREG
IC352 , Q3531
VOLTAGE REG
ULD
LD
DEW
S/S 5V
SWP ADJ
STL ADJ
BAT ADJ
MI
MO
SCK
CS
RESET
V CS
JOG VD
MODE 2-0
CASSET
RECPRF
UNLOAD
LOAD
DEW
SWP
STILL
BATTERY
AVDD
AVREF
VDD
AVSS
VSS
DFG
DPG
CFG
C FWD
C ON
CAP PWM
DRUM PWM
D ON
DRVS
DBRK
OS REC
OS REC
JOG MODE
COMP_SYNC
CAM/LINE
A_MUTE
FADE
TSB
ATF
ATF LOCK
16K/46K
SEL1
SEL2
POWER SAVE
RF SW
REC_CHA
REC_CHB
FEP
PB/REC
JOG
V_MUTE
SP/LP
STANDBY
EDIT
CAM ON
X3501 8MHZ
IC351 CXP80116
MAIN CONTROLLER
IC381 CXA1512M
IC383
LPF
IC382 MB3775
PWM
OSC
480KHZ
Q3815
Q3812
Q3502
ON
RVS
BRK
IC384 LB1617
CVS
CAP DRIVER
IC383 CXA8006
DVS
DRUM DRIVER
U V W
DATA
DISP
Q3202
VSYNC
HSYNC
Q3201
IC321 BA7046 PLL
AFC ADJ
IC322 CHARAGENE µPD6142
OS_POS ADJ
IC323
BRINK
IC352
IC371 CXA1204Q (ATF)
Q3701
X3701 5.9MHZ
PILOT
R SAVE

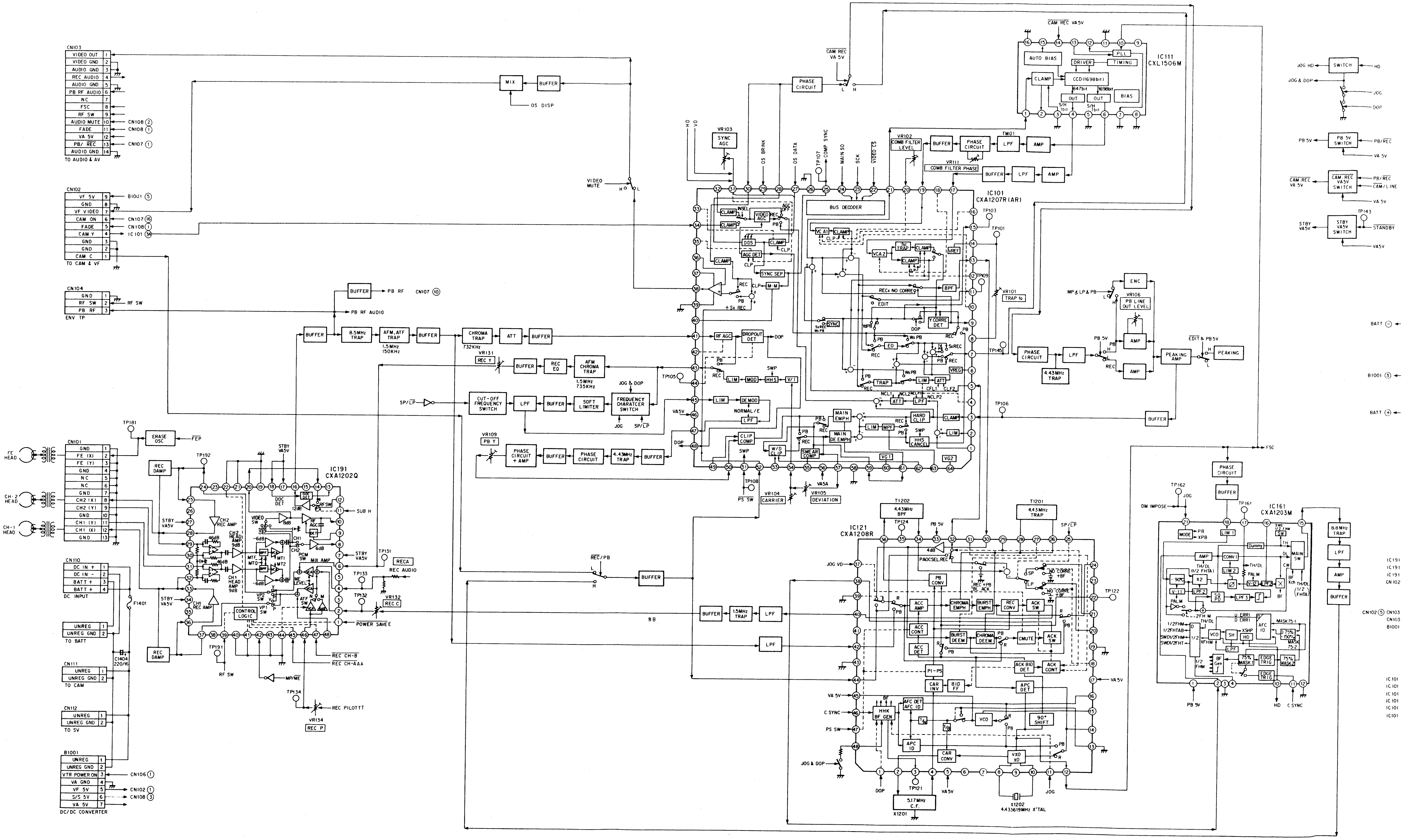
2-4. POWER SUPPLY SYSTEM BLOCK DIAGRAM



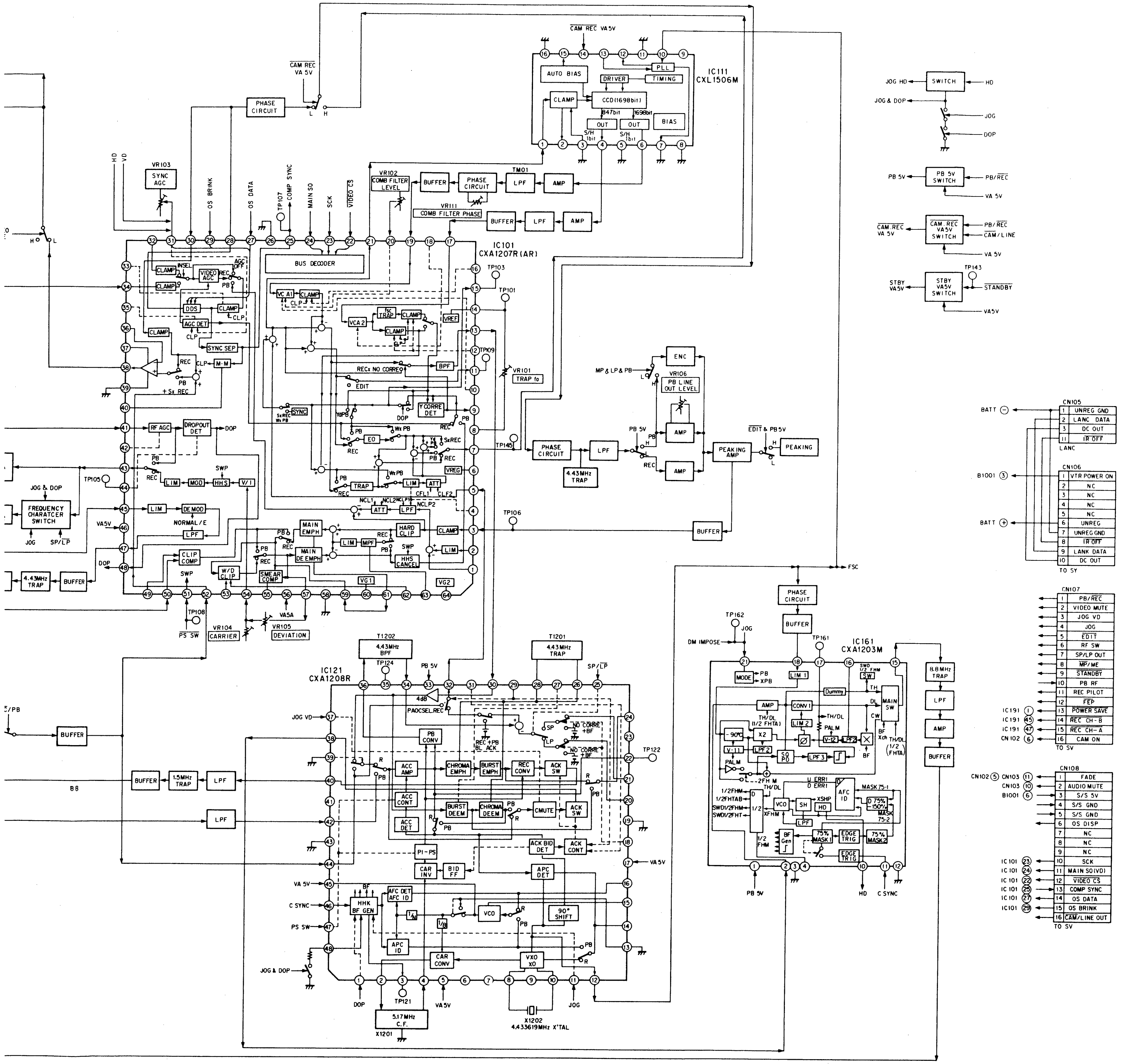
VIEW FINDER
CN911
CN102
VD 2
AD 1
CN202
CN281
MIC AMP
CN201
CN103
TC 2
VD 1
TALLY LED
CN941
CN932
S/S 5V
AE · AE AWB
5.5V
ZOOM MOTOR
CN931
CN913
TC 1
DC PLUG
CN110
FUSE
3.15A
UNREG
VTR DDC
5V
VF5V
AV5V
S/S 5V
BATTERY
CN111
CN912
CAMERA DDC
CN911
CN921
UNREG
CAM 5V
5V
15V
5V
5V
15V
-9V
VIDEO AUDIO
CCD
CN102
CN912
CAM ON
LANC JACK
LANC DC OUT
CN105
CN106
CN304
CN112
CN357
CN108
CN358
CN107
CN359
CA 1
CA 2
LANC CONTROLL
LIMITTER
VTR ON
UNREG
STBYE
PB/REC
CAMON
VDD
CN303
CN356
SCK
SUB SO
SUB SI
MAIN CS
MAIN RESET
SCK
MAIN SI
MAIN SO
MAIN CS
MAIN RESET
MAIN CONTROLLER
BATT OFF
RESET
VDD
VCC
5V
LITHIUM BATTERY
CN302
CN871
LI ⊕
TB1
BACKUP CONTROLL
SUB CONTROLLER
POWER SW
CAMERA
OFF
VTR
S/S5V
MECHANISM
CN351
REEL SENSOR
T/E SENSOR
S/S5V
5V
CAPSTAN DRIVER
DRUM DRIVER
UNREG
CN352
LOADING MOTOR
CN353
DM 1
SY 2
CN172
CN313
CN301
CN171
CN311
SY 1
REC LED
SV 1
S/S 5V


AD 1
CN 281
MIC AMP
202
201
103
TC 2
TALLY LED
CN941
CN932
S/S 5V
AE · AE AWB
5.5V
ZOOM MOTOR
CN931
TC 1
VD 1
CN913
CAMERA DDC
CN111
CN912
CN911
CN921
UNREG
CAM 5V
5V
15V
5V
5V
15V
-9V
VIDEO AUDIO
CCD
CN102
CN912
CAM ON
CA 1
CA 2
CN112
CN357
CN108
CN358
CN107
CN359
STBYE
PB/REC
CAMON
VDD
CN303
CN356
SCK
B SO
B SI
CS
SET
SCK
MAIN SI
MAIN SO
MAIN CS
MAIN RESET
MAIN CONTROLLER
ER
VER SW
R
S5V
S/S5V
5V
UNREG
CAPSTAN DRIVER
DRUM DRIVER
MECHANISM
CN351
REEL SENSOR
T/E SENSOR
CN352
LOADING MOTOR
CN353
SV 1
S/S 5V

2-5. VIDEO BLOCK DIAGRAM



CN103
VIDEO OUT
VIDEO GND
AUDIO GND
REC AUDIO
AUDIO GND
PB RF AUDIO
NC
FSC
RF SW
AUDIO MUTE
FADE
VA 5V
PB/REC
AUDIO GND
TO AUDIO & AV
CN102
VF 5V
GND
VF VIDEO
CAM ON
FADE
CAM Y
GND
GND
CAM C
TO CAM & VF
CN104
GND
RF SW
PB RF
ENV TP
CN101
FE HEAD
CH-2 HEAD
CH-1 HEAD
CN110
DC IN +
DC IN −
BATT +
BATT +
DC INPUT
F1401
TO BATT
CN111
UNREG
UNREG GND
TO CAM
CN112
TO 5V
B1001
VTR POWER ON
VA GND
VF 5V
S/S 5V
VA 5V
DC/DC CONVERTER
C1404 220/16
MIX
BUFFER
OS DISP
VIDEO MUTE
PB RF
PB RF AUDIO
8.5MHz TRAP
AFM, ATF TRAP
1.5MHz 150KHz
CHROMA TRAP
732KHz
ATT
VR131
REC Y
REC EQ
AFM CHROMA TRAP
1.5MHz 735KHz
SP/LP
CUT-OFF FREQUENCY SWITCH
LPF
SOFT LIMITER
FREQUENCY CHARATCER SWITCH
JOG & DOP
VR109
PB Y
PHASE CIRCUIT + AMP
PHASE CIRCUIT
4.43MHz TRAP
TP181
ERASE OSC
FEP
REC DAMP
TP192
IC191
CXA1202Q
STBY VA5V
SUB H
CH2 REC AMP
CH1 REC AMP
CONTROL LOGIC
REC C
REC A
REC AUDIO
POWER SAVE
TP131
TP132
TP133
VR132
TP191
RF SW
MPYME
TP134
VR134
REC P
REC PILOTTT
REC CH-B
REC CH-AAA
REC/PB
BB
1.5MHz TRAP
VR103
SYNC AGC
HD
VD
OS BRINK
OS DATA
TP107
COMP SYNC
MAIN SO
SCK
VIDEO CS
CAM REC VA 5V
PHASE CIRCUIT
VR102
COMB FILTER LEVEL
VR111
COMB FILTER PHASE
TM01
AMP
BUS DECODER
IC101
CXA1207R(AR)
TP103
TP101
TP109
VR101
TRAP fo
TP140
TP105
TP106
TP108
PS SW
VR104
CARRIER
VR105
DEVIATION
VA5A
VA5V
DOP
CLAMP
SYNC SEP
EDIT
DROPOUT DET
DEMOD
NORMAL/E
MAIN EMPH
MAIN DE.EMPH
HARD CLIP
HHS CANCEL
CLIP COMP
W/D CLIP
SMEAR COMP
VG1
VG2
IC111
CXL1506M
AUTO BIAS
PLL
DRIVER
TIMING
CCD(1698bit)
BIAS
S/H
OUT
PHASE CIRCUIT
4.43MHz TRAP
PEAKING AMP
PEAKING
MP & LP & PB
ENC
VR106
PB LINE OUT LEVEL
EDIT & PB5V
PB 5V
JOG HD
SWITCH
JOG & DOP
PB 5V SWITCH
PB/REC
CAM REC VA5V SWITCH
CAM/LINE
TP143
STBY VA5V SWITCH
STANDBY
BATT
B1001
FSC
T1202
4.43MHz BPF
TP124
T1201
4.43MHz TRAP
IC121
CXA1208R
JOG VD
PB CONV
ACC AMP
ACC CONT
ACC DET
CHROMA EMPH
BURST EMPH
REC CONV
ACK SW
BURST DEEM
CHROMA DEEM
CMUTE
ACK DET
ACK CONT
PI-PS
CAR INV
BID FF
APC DET
AFC DET
AFC ID
HHK BF GEN
VCO
90° SHIFT
APC ID
CAR CONV
VXO XO
TP121
TP122
C SYNC
PS SW
5.17MHz C.F.
X1201
X1202
4.433619MHz X'TAL
JOG
PHASE CIRCUIT
TP162
DM IMPOSE
TP161
IC161
CXA1203M
MODE
LIM
AMP
CONV
PALM
SW
MAIN SW
AFC ID
MASK75-1
EDGE TRIG
8.8MHz TRAP
CN102
CN103


IC111
CXL1506M
AUTO BIAS
DRIVER
TIMING
PLL
CLAMP
CCD(1169bit)
847bit
1698bit
OUT
S/H
BIAS
CAM REC VA5V
PHASE CIRCUIT
TM01
LPF
AMP
BUFFER
VR102
COMB FILTER LEVEL
VR111
COMB FILTER PHASE
VR103
SYNC AGC
HD
VD
OS BRINK
OS DATA
TP107
COMP SYNC
MAIN SO
SCK
VIDEO CS
IC101
CXA1207R(AR)
BUS DECODER
TP103
TP101
TP109
VR101
TRAP fo
TP145
TP106
TP105
TP108
PS SW
VR104
CARRIER
VR105
DEVIATION
VA5A
RF AGC
DROPOUT DET
DOP
JOG & DOP
FREQUENCY CHARACTER SWITCH
JOG
SP/LP
VA5V
4.43MHz TRAP
SYNC SEP
CLIP COMP
W/D CLIP
SMEAR COMP
MAIN EMPH
MAIN DE EMPH
HARD CLIP
HHS CANCEL
VG1
VG2
ENC
VR106
PB LINE OUT LEVEL
MP & LP & PB
PEAKING AMP
PEAKING
EDIT & PB5V
BUFFER
4.43MHz TRAP
FSC
T1202
4.43MHz BPF
T1201
4.43MHz TRAP
TP124
IC121
CXA1208R
PB 5V
SP/LP
JOG VD
PB CONV
ACC AMP
CHROMA EMPH
BURST EMPH
REC CONV
ACK SW
ACC CONT
ACC DET
BURST DEEM
CHROMA DEEM
CMUTE
ACK BID DET
ACK CONT
PI-PS
CAR INV
BID FF
APC DET
HHK BF GEN
AFC DET AFC ID
VCO
90° SHIFT
APC ID
CAR CONV
VXO XO
TP122
VA 5V
C SYNC
PS SW
DOP
TP121
JOG
5.17MHz C.F.
X1201
X1202
4.433619MHz X'TAL
BUFFER
1.5MHz TRAP
LPF
BB
TP162
JOG
DM IMPOSE
TP161
IC161
CXA1203M
MODE
LIM 1
AMP
CONV 1
LIM 2
90°C
X2
V-11
LPF 2
SG PD
LPF 3
V-12
PALM
Dummy
MAIN SW
AFC ID
VCO
SH
HD
MASK 75-1
75% MASK 1
EDGE TRIG
75% MASK 2
BF Gen
PB 5V
HD
C SYNC
8.8MHz TRAP
LPF
AMP
BUFFER
JOG HD
SWITCH
HD
JOG & DOP
JOG
DOP
PB 5V
PB 5V SWITCH
PB/REC
VA 5V
CAM.REC VA 5V
CAM.REC VA5V SWITCH
PB/REC
CAM/LINE
VA 5V
TP143
STBY VA5V
STBY VA5V SWITCH
STANDBY
VA5V
BATT ⊖
B1001 ③
BATT ⊕

CN105

1	UNREG GND
2	LANC DATA
3	DC OUT
11	IR OFF

LANC

CN106

1	VTR POWER ON
2	NC
3	NC
4	NC
5	NC
6	UNREG
7	UNREG GND
8	IR OFF
9	LANK DATA
10	DC OUT

TO SY

CN107

	1	PB/REC
	2	VIDEO MUTE
	3	JOG VD
	4	JOG
	5	EDIT
	6	RF SW
	7	SP/LP OUT
	8	MP/ME
	9	STANDBY
	10	PB RF
	11	REC PILOT
	12	FEP
IC191 ①	13	POWER SAVE
IC191 (45)	14	REC CH-B
IC191 (47)	15	REC CH-A
CN102 ⑥	16	CAM ON

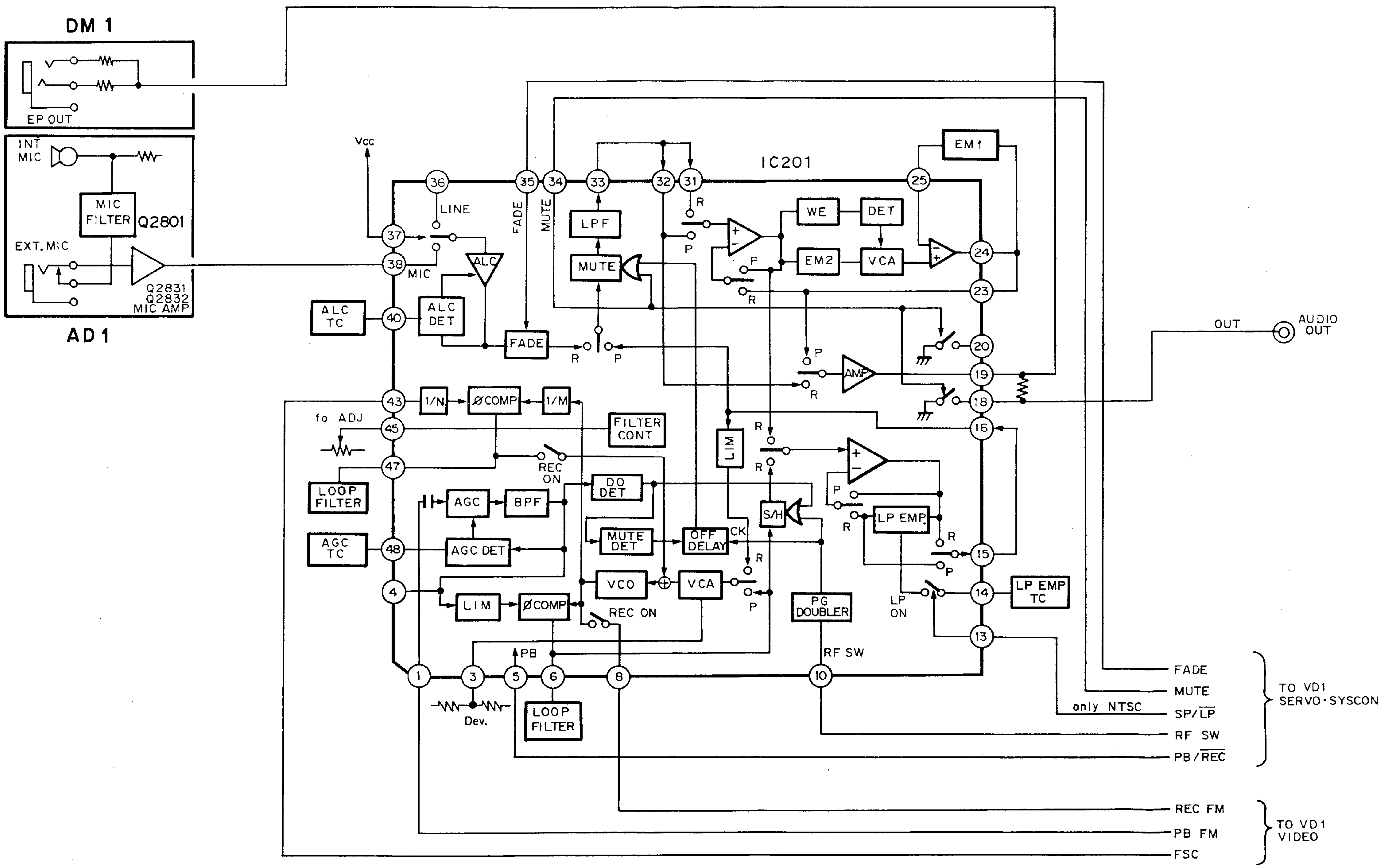
TO SV

CN108

CN102 ⑤ CN103 ⑪	1	FADE
CN103 ⑩	2	AUDIO MUTE
B1001 ⑥	3	S/S 5V
	4	S/S GND
	5	S/S GND
	6	OS DISP
	7	NC
	8	NC
	9	NC
IC101 ㉓	10	SCK
IC101 ㉔	11	MAIN SO(VD)
IC101 ㉒	12	VIDEO CS
IC101 ㉕	13	COMP SYNC
IC101 ㉗	14	OS DATA
IC101 ㉙	15	OS BRINK
	16	CAM/LINE OUT

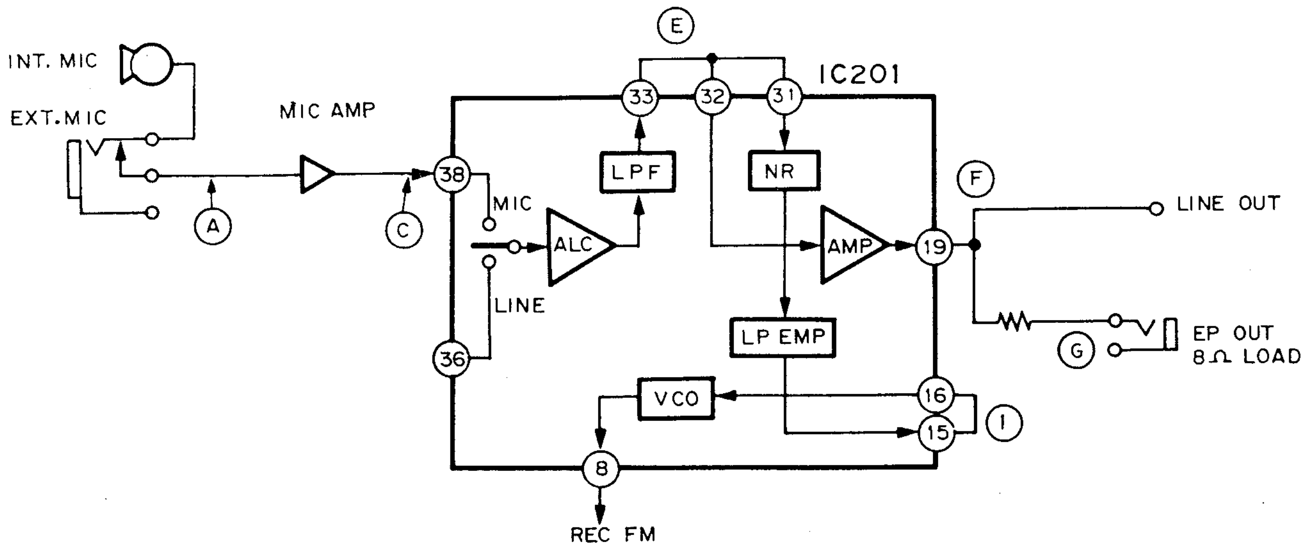
TO SV

2-6. AUDIO BLOCK DIAGRAM

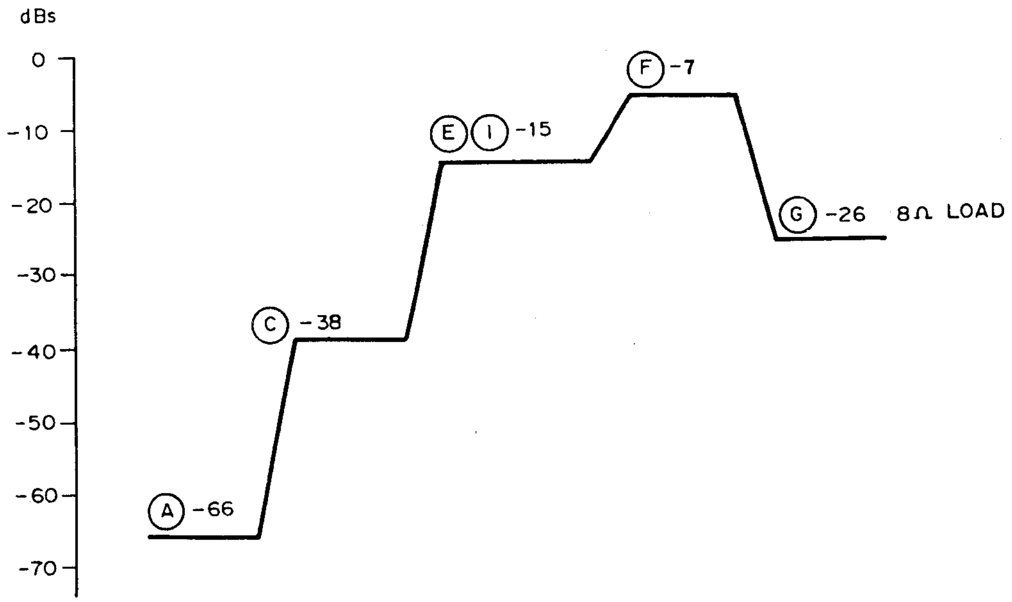

DM 1
EP OUT
INT MIC
MIC FILTER
Q2801
EXT. MIC
Q2831
Q2832
MIC AMP
AD 1
Vcc
IC201
36
35
34
33
32
31
25
37
38
40
43
45
47
48
4
1
3
5
6
8
10
13
14
15
16
18
19
20
23
24
LINE
MIC
ALC
ALC DET
ALC TC
FADE
MUTE
LPF
MUTE
FADE
R
P
WE
DET
EM2
VCA
EM 1
AMP
1/N
ØCOMP
1/M
fo ADJ
FILTER CONT
LOOP FILTER
REC ON
DO DET
AGC
BPF
AGC DET
AGC TC
MUTE DET
OFF DELAY
CK
LIM
S/H
VCO
VCA
LIM
ØCOMP
REC ON
PG DOUBLER
RF SW
LP EMP
LP EMP TC
LP ON
PB
Dev.
LOOP FILTER
OUT
AUDIO OUT
FADE
MUTE
only NTSC
SP/$\overline{LP}$
RF SW
PB/$\overline{REC}$
TO VD1 SERVO·SYSCON
REC FM
PB FM
FSC
TO VD1 VIDEO

2-7. AUDIO LEVEL DIAGRAM

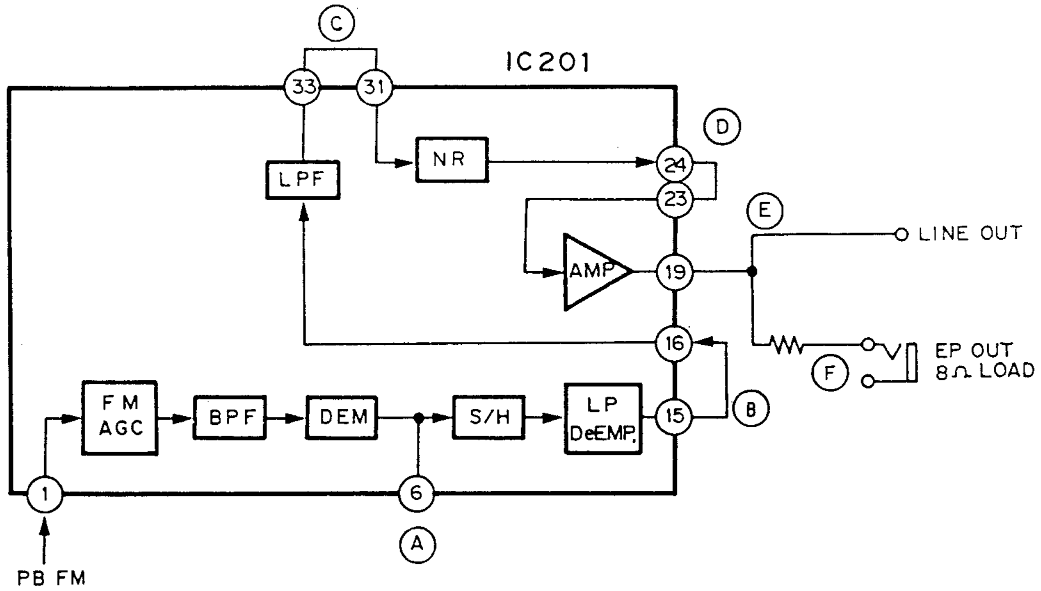
REC

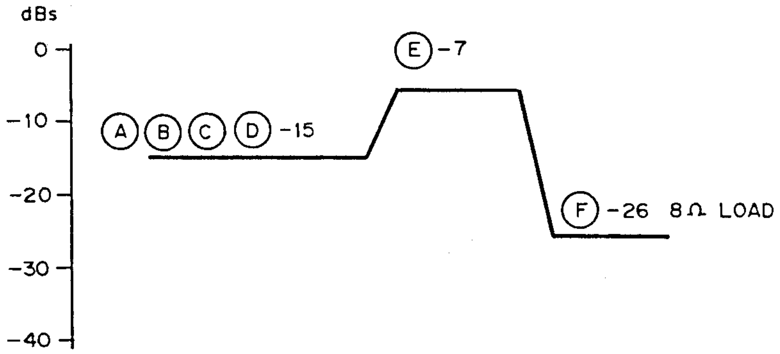

INT. MIC
EXT. MIC
MIC AMP
A
C
E
IC201
33
32
31
38
MIC
LINE
ALC
LPF
NR
AMP
19
F
LINE OUT
LP EMP
36
VCO
16
15
I
8
G
EP OUT
8Ω LOAD
REC FM

(LINE IN: Only NTSC)

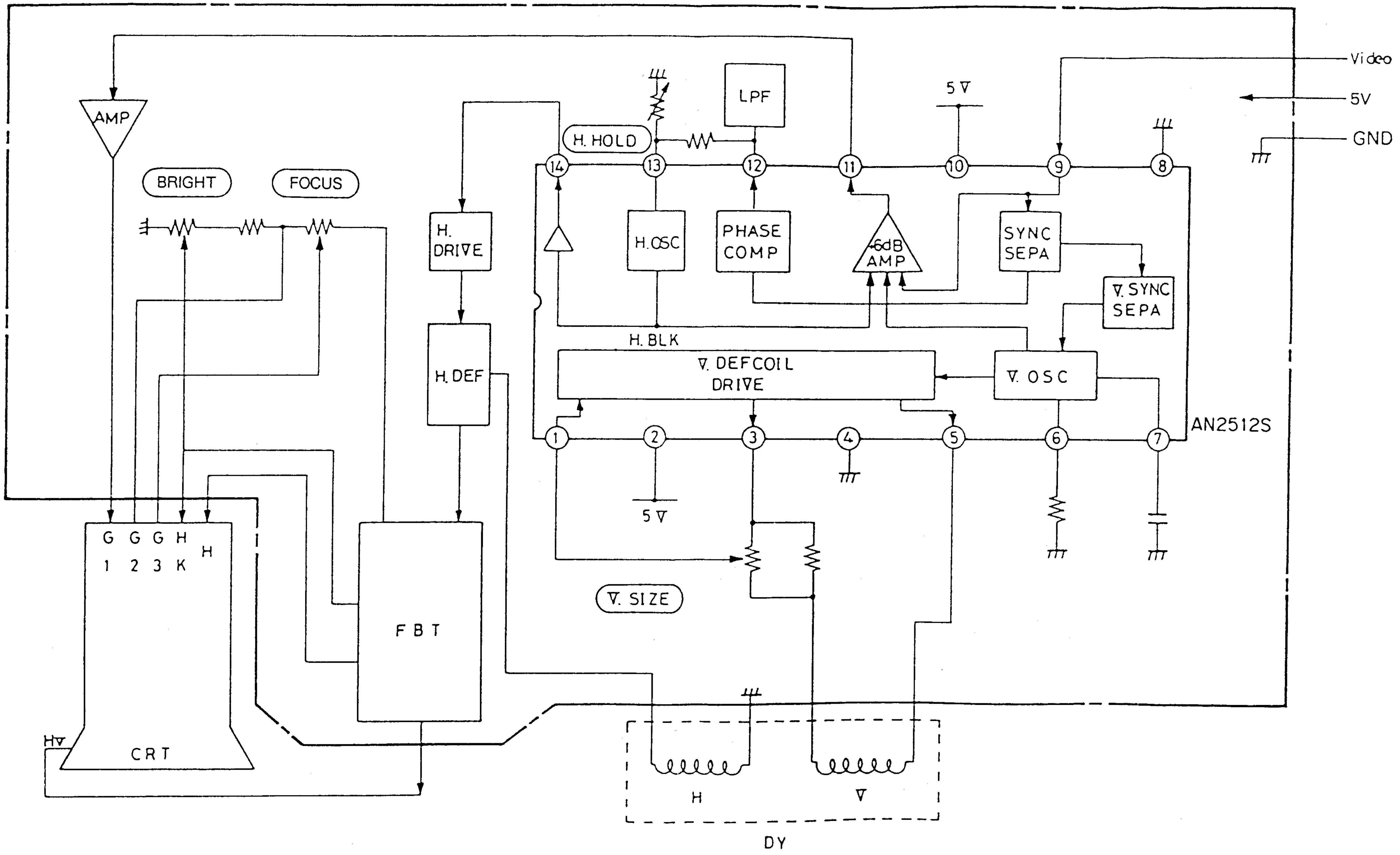


PB


C
IC201
33
31
LPF
NR
D
24
23
E
AMP
19
LINE OUT
16
EP OUT
8Ω LOAD
F
FM AGC
BPF
DEM
S/H
LP DeEMP.
15
B
1
6
A
PB FM



2-8. EVF BLOCK DIAGRAM


Video
5V
GND
AMP
BRIGHT
FOCUS
H. HOLD
LPF
5V
H. DRIVE
H. OSC
PHASE COMP
6dB AMP
SYNC SEPA
V. SYNC SEPA
H. DEF
H. BLK
V. DEFCOIL DRIVE
V. OSC
AN2512S
14
13
12
11
10
9
8
1
2
3
4
5
6
7
5V
G G G H
1 2 3 K
H
FBT
V. SIZE
CRT
Hv
H
V
DY

3. ADJUSTMENT

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4. VR, TP LOCATION ········ 50

1. CAMERA BLOCK ADJUSTMENT

1-1. TABLE FOR SERVICING TOOLS

Ref. No	Name	Part code
J-1	Color viewer 5100K	VJ8-0007
J-2	Gray scale (γ =0.45)	VJ8-0010
J-3	Color bar chart	VJ8-0009
J-4	Two color temperature conversion filters (LBA8)	VJ8-0002
J-5	Socket pull-out tool	VJ8-0030
J-6	Camera block fixing tool	VJ8-0078
J-7	Pan head	VJ8-0101
J-8	Extension FPC (CA1 to TC1)	VJ8-0121
J-9	Relay cord (CA1 to VD1) etc.	VJ8-0123
J-10	Extention FPC (DM1 to SY2)	VJ8-0124
J-11	Adjustment controller	VJ8-0103
J-12	Adjustment ⊖ screwdriver	VJ8-0104

Note) J-7 Pan head can also be used for VJ8-0020.

1-2. EQUIPMENTS

1. Vectorscope
2. Oscilloscope
3. Color monitor
4. Digital voltmeter
5. DC regulated power supply

1-3. ADJUSTMENT ITEM AND ORDER

1. Flange back focus adjustment
2. CCD driving voltage adjustment
3. Auto iris level adjustment
4. AGC level adjustment
5. Setup level adjustment
6. Y level adjustment
7. PLL voltage adjustment
8. Burst level adjustment
9. Chroma balance adjustment
10. Hue and chroma level adjustment
11. 5100K AWB adjustment
12. 2800K AWB adjustment

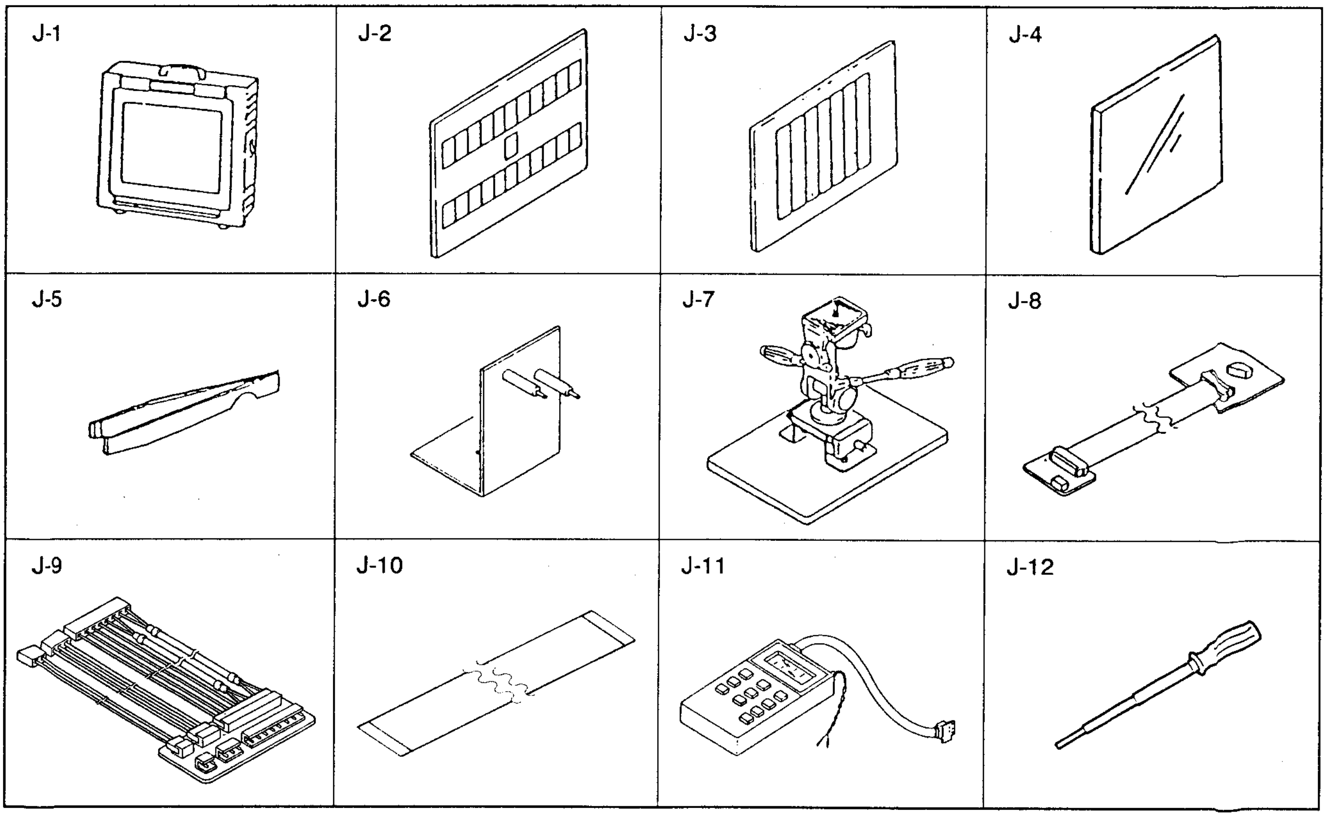


Table 1-1.

1-4. SETUP AND CONNECTION

Refer to "1. DISASSEMBLY" to remove the cabinet and each board.

1) Set the camera block to the tool J-6 as shown in Fig. 1-1.
2) Set up the camera block and VTR block as shown in Fig. 1-2.
3) Connect as follows basically though the required preparation is different a little by the adjustment item.
   CA1 to TC1 (J-8)
   CA1 to VD1 (J-9)
   DM1 to SY2 (J-10)
   CA1 to adjustment controller (See Fig. 1-6)
   Video output to color monitor and vectorscope

※ Open and ground the test pin arrays [CAM.ADJ] and [WB SW] in accordance with the adjustment specification.

※ Use the test pin arrays [CLP3] and [GND] as the trigger for oscilloscope and GND.

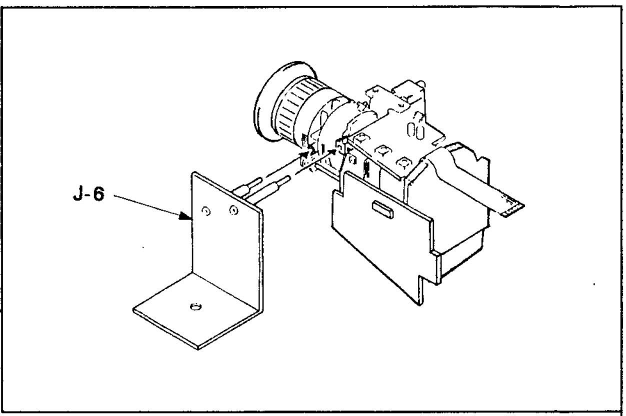


Fig. 1-1.

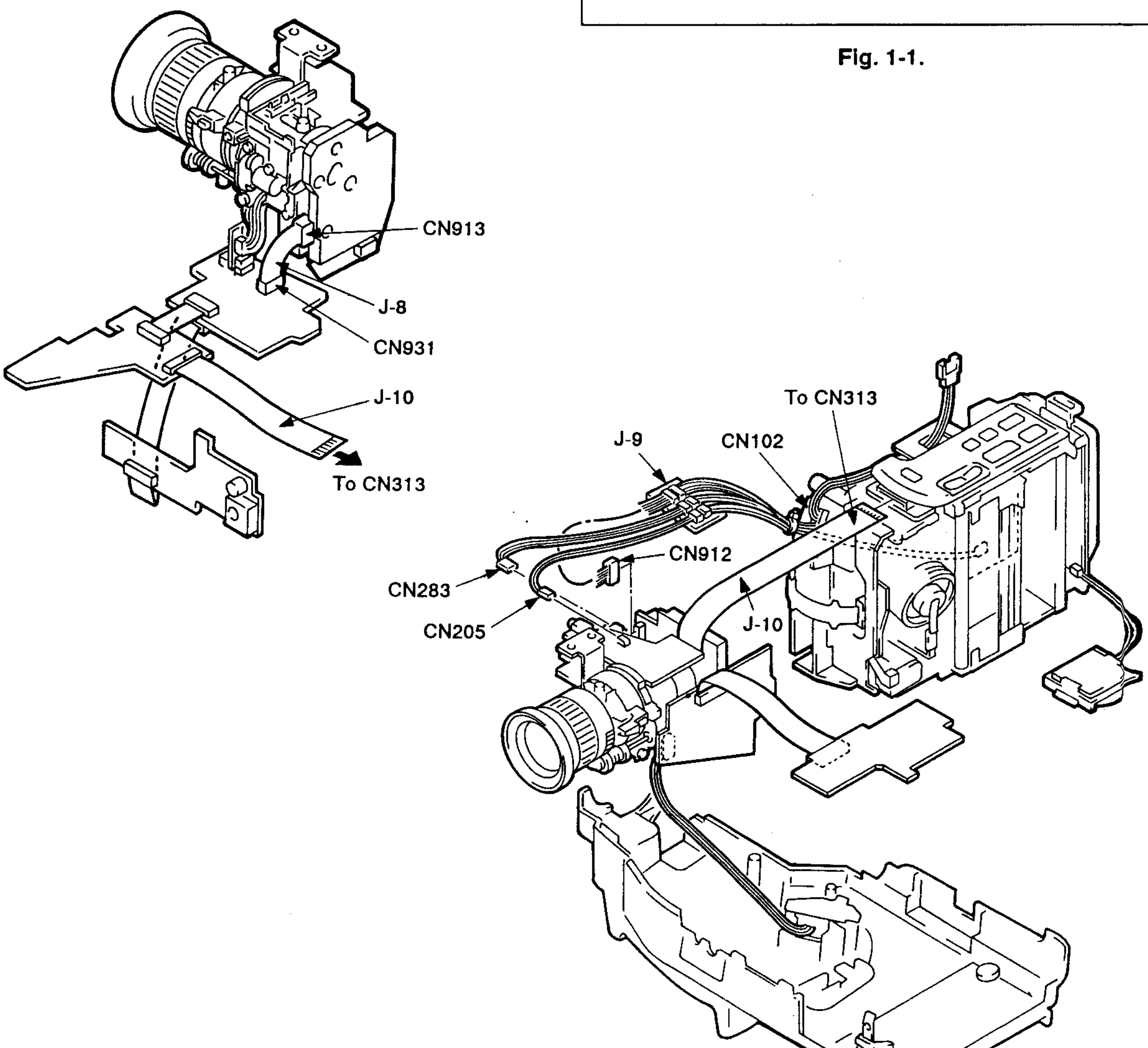


Fig. 1-2.

1-5. NOTES

1) Perform the adjustment after aging for ten minutes or more.
2) Perform the adjustment in the order as shown in the section 1-8 as a rule.
3) Set the line select switch of the vectorscope to +V.

1-6. STANDARD SETTING

1) Use the 5100K viewer for a subject.
2) Set to about 1.1m the distance from subject and adjust with the zoom lever and the focus ring so that each picture frame size becomes as shown in Figs. 1-3 and 1-4 when performing the adjustment with the gray scale and the color bar.
3) Operate the zoom lever so that the viewer without chart is monitored on the whole screen when performing the adjustment with all white pattern.
4) Connection of equipment.

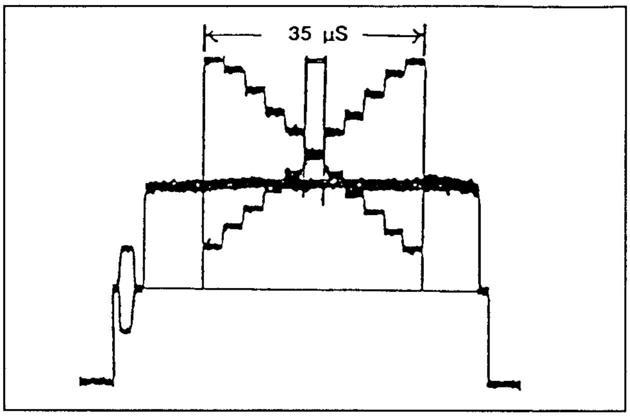


Fig. 1-3.

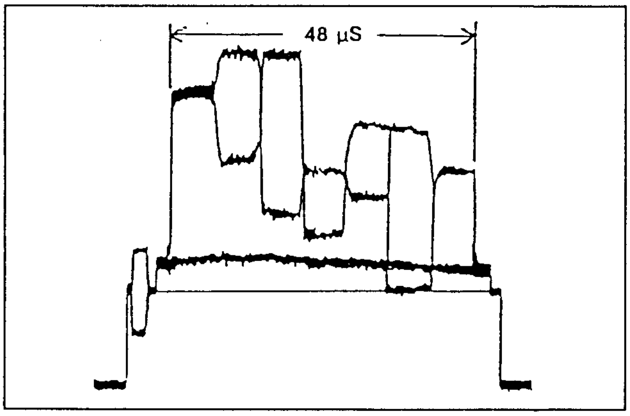


Fig. 1-4.

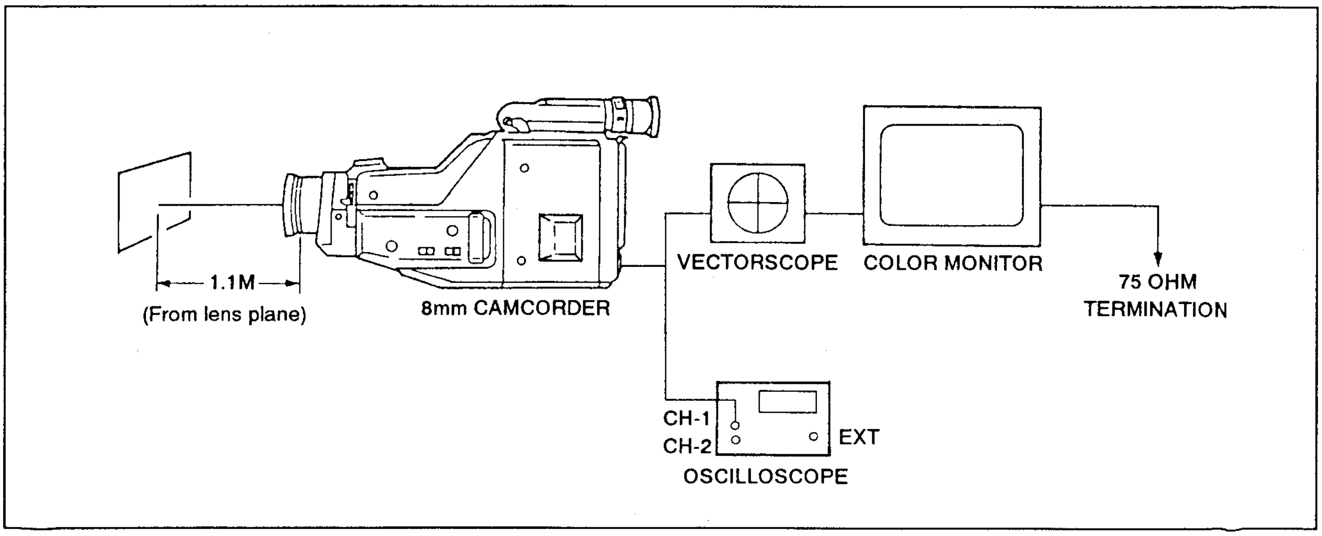

1.1M
(From lens plane)
8mm CAMCORDER
VECTORSCOPE
COLOR MONITOR
75 OHM
TERMINATION
CH-1
CH-2
EXT
OSCILLOSCOPE

Fig. 1-5.

1-7. ADJUSTMENT CONTROLLER

For this camera, the semi-fixed resistors used formerly decrease to five and the EVR (electronic volume) IC is used instead. The EVR IC incorporates the non-volatile memory and the 8 bits D/A converter of 12 channels.
The adjustment controller performs the following communications with EVR IC. They are channel designation, up/down of data (8 bits, 0 to 255), reading out of the data written in the memory and writing of the data to the memory, etc. These operations can be performed by the key operations of the adjustment controller.
Use the adjustment controller as described below.

① Connecting method
Connect the Pin ⑭ connector of the adjustment controller to CN914 on the CA1 board as shown in Fig. 1-6 after turning off the power supply of the AC adapter.

② Power supply
Use the DC regulated power supply for the power supply of the adjustment controller and connect DC6V to 8V to the pin jack.
※ Turn on/off the power supply of camera and the power supply of the adjusting controller at the same time.

③ Test pin array
The test pins required for the adjustment are almost concentrated on the RM-4 board of the adjustment controller. This section is called test pin array hereafter.
The test pin arrangement diagram and the terminal specification are shown in Fig. 1-7.
(Pin ②: As Y – is unused, Pin ② is denoted as NC.)

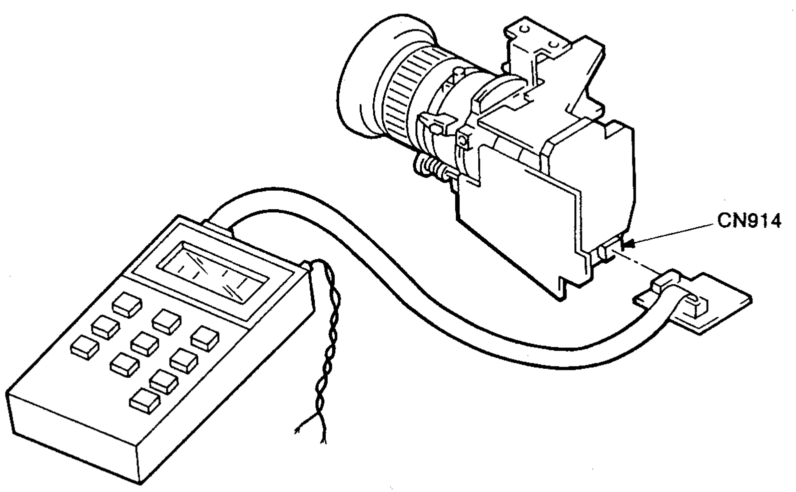
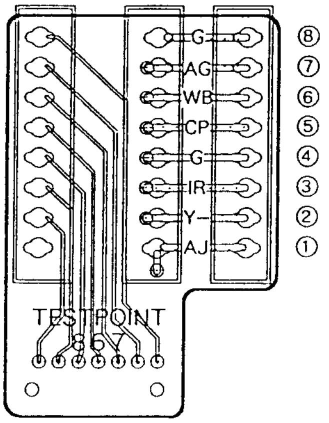


Fig. 1-6.



Terminal No.	Silk printing	Name in circuit diagram
8	G	GND
7	AG	AGC DET
6	WB	WB SW
5	CP	CLP3
4	G	GND
3	IR	IRIS DET
2	Y–	NC
1	AJ	$\overline{\text{CAM.ADJ}}$

Fig. 1-7. Test Pin Arrangement Diagram and Terminal Specification on RM-4 Board

④ Relation between the adjusting data value and EVR IC output voltage
When setting the adjusting data value as N, and EVR IC output voltage as V(N), the following formula is obtained.
$V(N) \fallingdotseq 0.5+3N/255$
(Example) $V(0) \fallingdotseq 0.5$ volt, $V(128) \fallingdotseq 2.0$ volt,
$V(255) \fallingdotseq 3.5$ volt

⑤ Note on using the adjustment controller
The correct adjusting data may be deleted by miss operation of the adjustment controller. The following three items are recommended to prevent this.

1. Before performing the adjustment, note after reading out the adjusting data (0 to 255) of each channel.
2. Note the new adjusting data every time an adjustment of item completes.
3. Send each data to the D/A converter of each channel by pressing AID+SEND and AID+WRT after setting the data of all adjusting items and store into each memory to finish the adjustment.

1-8. ADJUSTING SPECIFICATION

1-8-1. Flange Back Focus Adjustment

Measuring Equipment: Siemens star chart
Minus screwdriver
Plus screwdriver

Adjusting Method:

1) Loosen the screw (A) on the rear part of the lens by the plus screwdriver.
2) Put the siemens star chart on the point 2 meters distant from the place CCD attached. Then rotate the focus ring till it comes to the base of Rib (the position of 2m graduation).
3) Rotate the zoom lever till it comes to the top of Rib (the position of 14mm graduation), and move the adjusting slit on the rear part of the lens by the minus screwdriver to adjust the focus.
4) Move the zoom to TELE fully and confirm for the focus not to get out of position.
5) If the aberration is found, repeat 3) and 4).
6) Tighten the screw (A) by the plus screwdriver while pressing the adjusting slit not to move with the minus screwdriver.

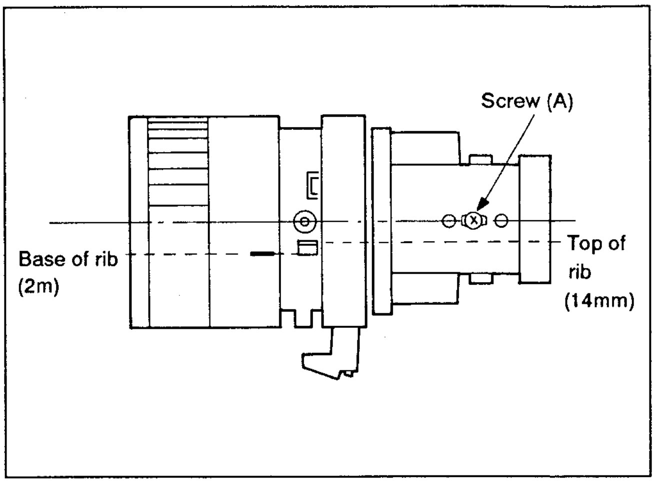


Fig. 1-8

1-8-2. CCD Driving Voltage Adjustment

Preparation: No special designation for test pin array
Subject: No designation
Measurement Point: TP919 [VPGL], TP918 [VSUB]
Measuring Equipment: Digital voltmeter
Adjustment VR: VR911 [PGL], VR912 [SUB] of CA1 board
Adjustment Value: Abbreviation voltage value ± 0.1V displayed on the rear side of CCD

Adjusting method:

1) Remove the shield case of CA1.
2) Read the abbreviation of two digits displayed on the rear side of CCD. The first digit displays VPGL and the second digit displays VSUB.
Convert these to the voltage with the following table.
For example, [4R] displays VPGL=2.5V, VSUB=14.5V.
3) Turn VR911 [PGL] so that the voltage at TP919 [VPGL] becomes the displayed voltage value ± 0.1V.
4) Turn VR912 [SUB] so that the voltage at TP918 [VSUB] becomes the displayed voltage value ± 0.1V.
5) Solder the shield case of CA1.

VPGL abbreviation	0	1	2	3	4	5	6	7
Voltage [V]	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0

VSUB abbreviation	E	f	G	h	J	K	L	m	N	P	Q	R	S	T	U	V	W	X	Y	Z
Voltage [V]	9.0	9.5	10.0	10.5	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.5	15.0	15.5	16.0	16.5	17.0	17.5	18.0	18.5

1-8-3. Auto Iris Level Adjustment

Preparation: Connect the test pin array [$\overline{\text{CAM.ADJ}}$] to GND and open the test pin array [WB SW].
Subject: Gray scale (Standard picture frame)
Measurement Point: Test pin array [IRIS DET]
Measuring Equipment: Oscilloscope (10 μsec/div, 100 mV/div)
Adjustment VR: EVR CH1
Adjustment Value: 500 mV ± 10 mV

Adjusting method:

1) Operate the CH-UP key or the CH-DOWN key to designate EVR CH1.
2) Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the [IRIS DET] waveform level to 500 mV ± 10 mV.
3) Press the WRT key to store the adjusting data.

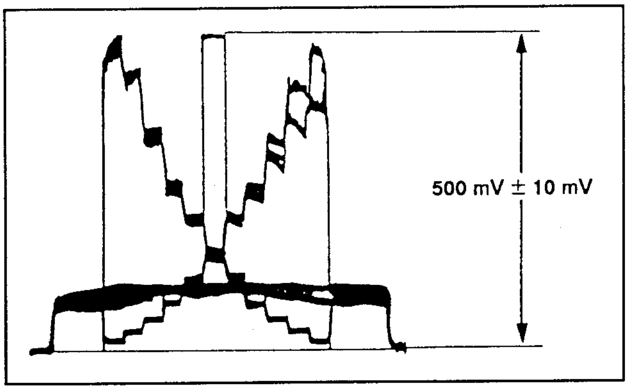


Fig. 1-9. Auto Iris Level Adjustment

1-8-4. AGC Level Adjustment

Preparation: Connect the test pin array [$\overline{\text{CAM.ADJ}}$] to GND and open the test pin array [WB SW].
Subject: Gray scale (Standard picture frame)
Measurement Point: Test pin array [AGC DET]
Measuring Equipment: Oscilloscope (10 μsec/div, 100 mV/div)
Adjustment VR: EVR CH2
Adjustment Value: 500 mV ± 10 mV

Adjusting method:

1) Operate the CH-UP key or the CH-DOWN key to designate EVR CH2.
2) Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the [AGC DET] waveform level to 500 mV ± 10 mV.
3) Press the WRT key to store the adjusting data.

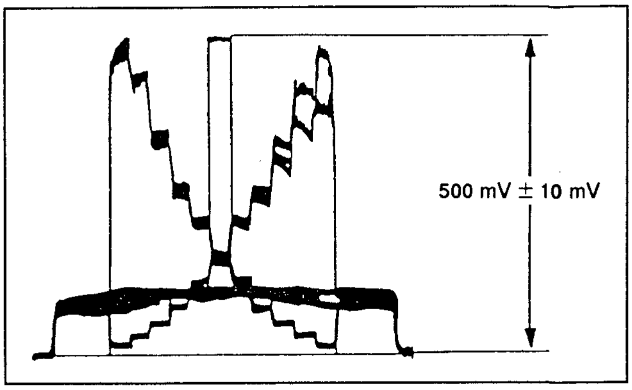


Fig. 1-10. AGC Level Adjustment

1-8-5. Setup Level Adjustment

Preparation: Connect the test pin array [$\overline{\text{CAM.ADJ}}$] to GND and open the test pin array [WB SW].
Subject: Attach lens cap.
Measurement Point: Video output
Measuring Equipment: Oscilloscope (10 μsec/div, 50 mV/div)
Adjustment VR: EVR CH4
Adjustment Value: S: V=300: (25 ± 5)

Adjusting method:

1) Operate the CH-UP key or the CH-DOWN key to designate EVR CH4.
2) Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the S: V ratio to 300: (25 ± 5).
3) Press the WRT key to store the adjusting data.

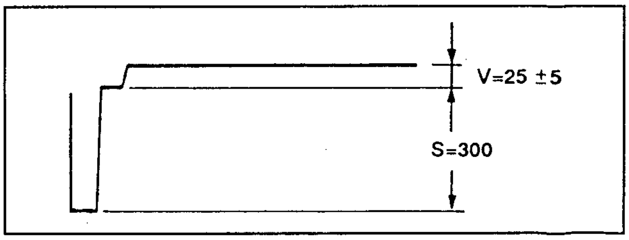


Fig. 1-12. Setup Level Adjustment

1-8-6. Y Level Adjustment

Preparation: Connect the test pin array [CAM.ADJ] to GND and open the test pin array [WB SW].
Subject: Gray scale (Standard picture frame)
Measurement Point: Video output
Measuring Equipment: Oscilloscope (10 µsec/div, 100 mV/div)
Adjustment VR: EVR CH5
Adjustment Value: S: V=300: (730 ± 20)

Adjusting method:

1) Operate the CH-UP key or the CH-DOWN key to designate EVR CH5.
2) Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the S: V ratio to 300: (730 ± 20).
3) Press the WRT key to store the adjusting data.

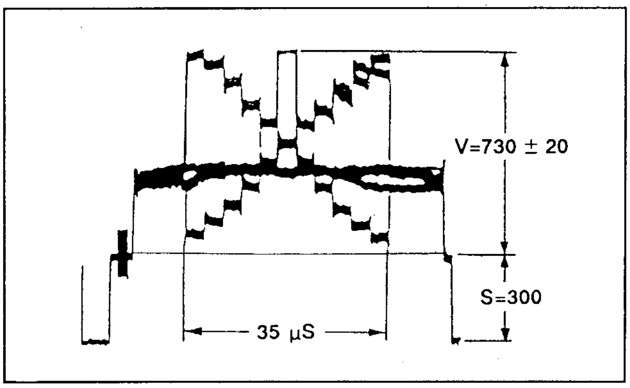


Fig. 1-13. Y Level Adjustment

1-8-7. PLL Voltage Adjustment

Preparation: No special designation for the test pin array
Subject: No designation
Measurement Point: TP915 (PLL)
Measuring Equipment: Digital voltmeter
Adjustment VR: CT915 (PLL), VR915
Adjustment Value: DC2.4V ± 0.1V

Adjusting method:

1) Rotate VR915 so that the voltage in the mid point of VR915 becomes 2.5V ± 0.2V.
2) Turn CT915 [PLL] so that the voltage of TP915 [PLL] becomes 2.4V ± 0.1V.
3) If not, turn VR915 [PLL] so that the voltage of TP915 [PLL] becomes 2.4V ± 0.1V.
   Be sure to perform aging for more than ten minutes before adjusting.

Note: Perform the adjustment especially after aging for more than ten minutes.

1-8-8. Burst Level Adjustment

Preparation: No special designation for the test pin array
Subject: No designation
Measurement Point: Video output
Measuring Equipment: Oscilloscope (10 µsec/div, 50 mV/div)
Adjustment VR: EVR CH6
Adjustment Value: 300 mV ± 10 mV

Adjusting method:

1) Operate the CH-UP key or CH-DOWN key to designate EVR CH6.
2) Operate the DATA-CENT key, DATA-UP key and DATA-DOWN key to set the burst level to 300 mV ± 10 mV.
3) Press the WRT key to store the adjusting data.

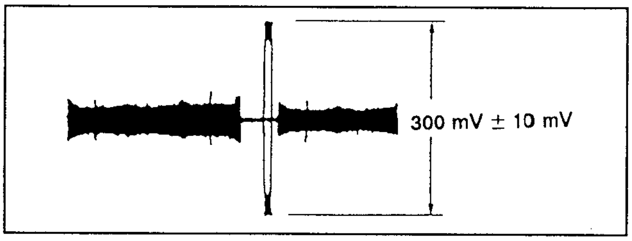


Fig. 1-14. Burst Level Adjustment

1-8-9. Chroma Balance Adjustment

Preparation: Connect the test pin array [CAM.ADJ] to GND and open the test pin array [WB SW].
Subject: Color bar (Standard picture frame)
Measurement Point: Video output
Measuring Equipment: Vectorscope
Adjustment VR: EVR CH3

Adjusting method:

1) Adjust the gain and phase of the vectorscope so that the burst becomes 75%.
2) Operate the CH-UP key or CH-DOWN key to designate EVR CH3.
3) Operate DATA CENT key, DATA UP key and DATA DOWN key to focus the luminance points which indicates color vectors respectively.
   ※ Adjust especially paying attention to the red vector.
4) Press the WRT once key pressing the AID key to store the adjusting data.

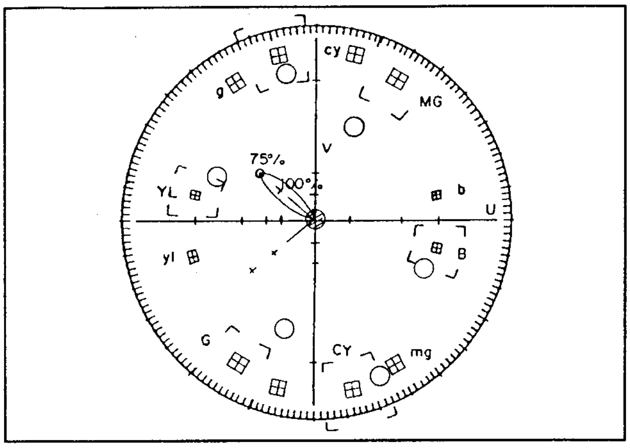


Fig. 1-15. Chroma Balance Adjustment

1-8-10. Hue and Chroma Level Adjustment

Preparation:	Connect the test pin array [CAM.ADJ] to GND and open the test pin array [WB SW].
Subject:	Color bar (Standard picture frame)
Measurement Point:	Video output
Measuring Equipment:	Vectorscope
Adjustment VR:	EVR CH7, CH8, CH9, CH10

Adjusting method:

1) Press the RESET key once.
2) Press the READ key once pressing the AID key and read out the all EVR data.
3) Adjust the gain and phase of the vectorscope so that the burst becomes 75%.
4) Adjust temporarily the white balance.
   Designate CH11 and CH12 and match the white vector of the color bar with the center of the vectorscope.
   Press the WRT key pressing the AID key to store the temporary adjusting data.
5) Adjust four EVRs of CH7, CH8, CH9 and CH10 alternately so that the luminance points which indicate red and yellow vectors are on the points as shown in Fig. 1-16 respectively.
6) Press the WRT once key pressing the AID key to store the adjusting data.

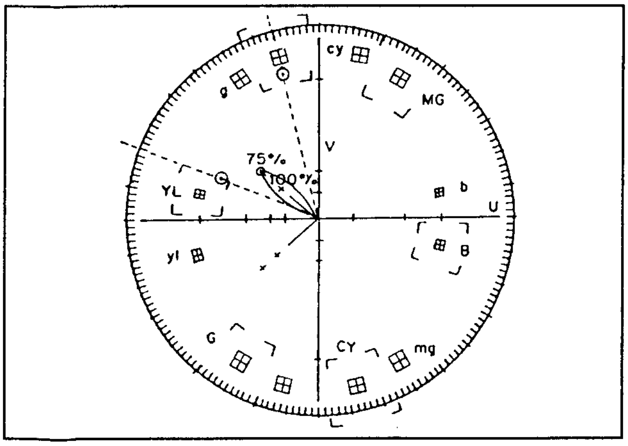


Fig. 1-16. Hue and Chroma Level Adjustment

1-8-11. 5100K AWB Adjustment

Preparation:	Connect the test pin array [CAM.ADJ] to GND and open the test pin array [WB SW].
Subject:	All white pattern
Measurement Point:	Video output
Measuring Equipment:	Vectorscope (Match the gain and phase so that the burst comes to the end of the vectorscope as shown in Fig. 1-17.)
Adjustment VR:	EVR CH11, CH12

Adjusting method:

1) Press the RESET key once.
2) Press the READ key once pressing the AID key and read out the all EVR data.
3) Adjust two EVRs of CH11 and CH12 mutually so that the luminance point displayed the white vector is positioned on the center point as shown in Fig. 1-17.
4) Press the WRT key pressing the AID key to store the adjusting data.

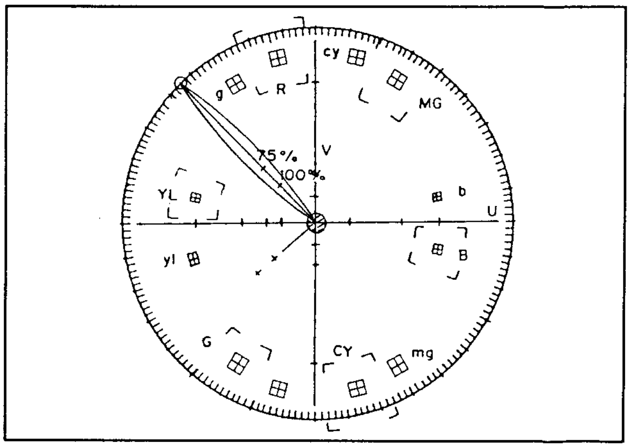


Fig. 1-17. 5100K AWB Adjustment

1-8-12. 2800K AWB Adjustment

Preparation: Connect the test pin arrays [CAM.ADJ] and [WB SW] to GND.

Subject: All white pattern
(Insert two LBA8s into ray way)

Measurement Point: Video output

Measuring Equipment: Vectorscope (Match the gain and phase so that the burst comes to the end of the vectorscope as shown in Fig. 1-18.)

Adjustment VR: TC1 board VR933 (B.G), VR932 (R.G)

Adjusting method:

1) Adjust VR933 (B.G) and VR932 (R.G) on the TC1 board so that the luminance point displayed the white vector is positioned on the center point as shown in Fig. 1-18.

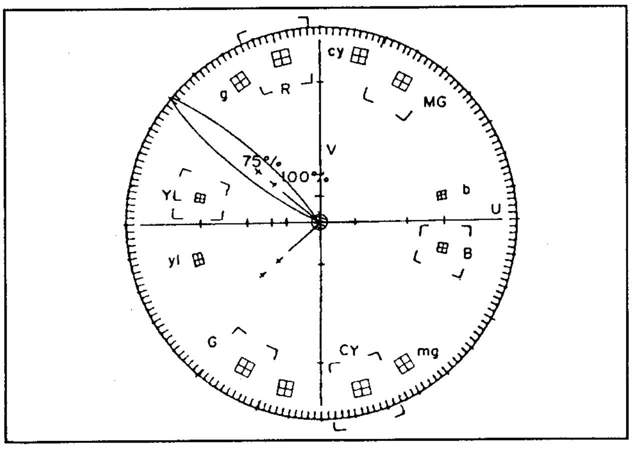


Fig. 1-18. 2800K AWB Adjustment

2. VIDEO BLOCK ADJUSTMENT

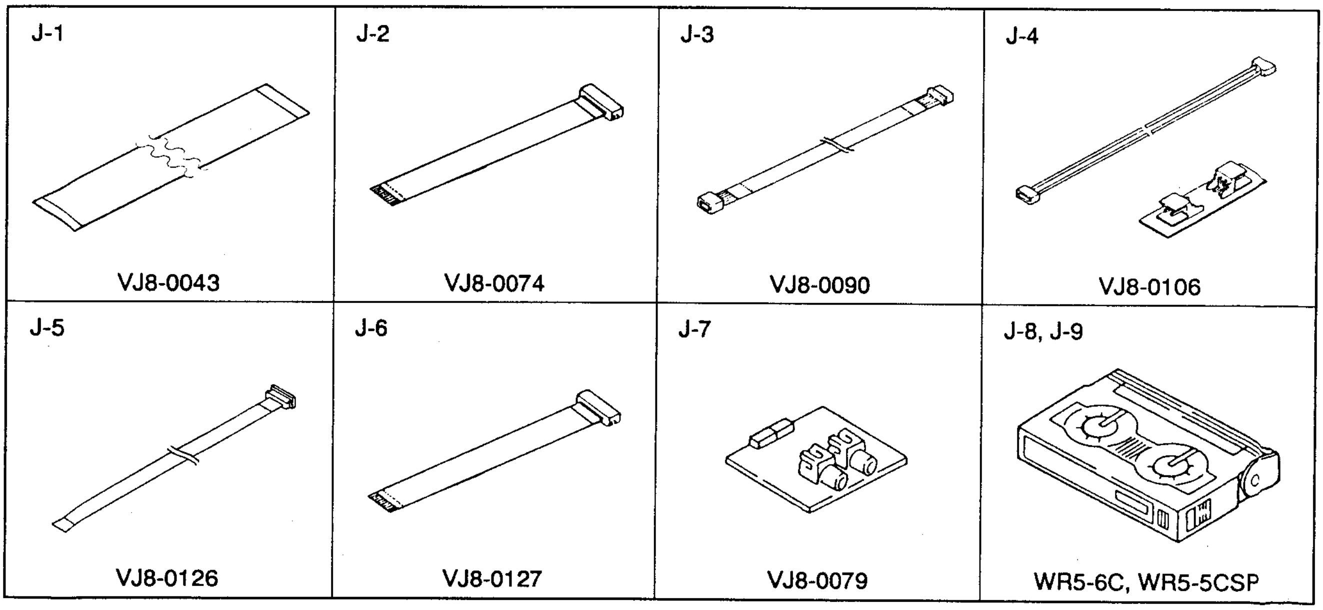
[Equipments]

1) Monitor TV
2) Oscilloscope 2 phenomena, band 10 MHz or wider, delay mode. (Use 10:1 probe unless otherwise specified.)
3) Frequency counter, Universal counter
4) Pattern generator with video output terminal
   Note: One on which the chroma signal can be turned off)
5) Vectorscope
6) Regulated power supply
7) Alignment tape
8) MP tape
9) Tools (Refer to Figs. 2-1, 2-2.)
10) Alligator clip lead wire

[Alignment tape]

For video frequency characteristics adjustment (WR5-6C) or (WR5-2C) Part code: 8-967-995-17
For operation check (WR5-5CSP) Part code: 8-967-995-47

Name	Contents		Application
Video frequency characteristics (WR5-6C), (WR5-2C)	1. Recorded area 2. Recorded contents 3. Marker	Video RF sweep 0 to 10 MHz 1, 3.58, 5.5, 7 kHz	Frequency characteristics adjustment
Operation check (WR5-5CSP)	1. Recorded area 2. Recorded contents	PCM to video Color bar, monoscope (SP) Audio signal (FM), PCM audio signal	Operation check



J-1 VJ8-0043

J-2 VJ8-0074

J-3 VJ8-0090

J-4 VJ8-0106

J-5 VJ8-0126

J-6 VJ8-0127

J-7 VJ8-0079

J-8, J-9 WR5-6C, WR5-5CSP

Fig. 2-1.

Note: Two tolls of J-1 and two of J-6 are needed.

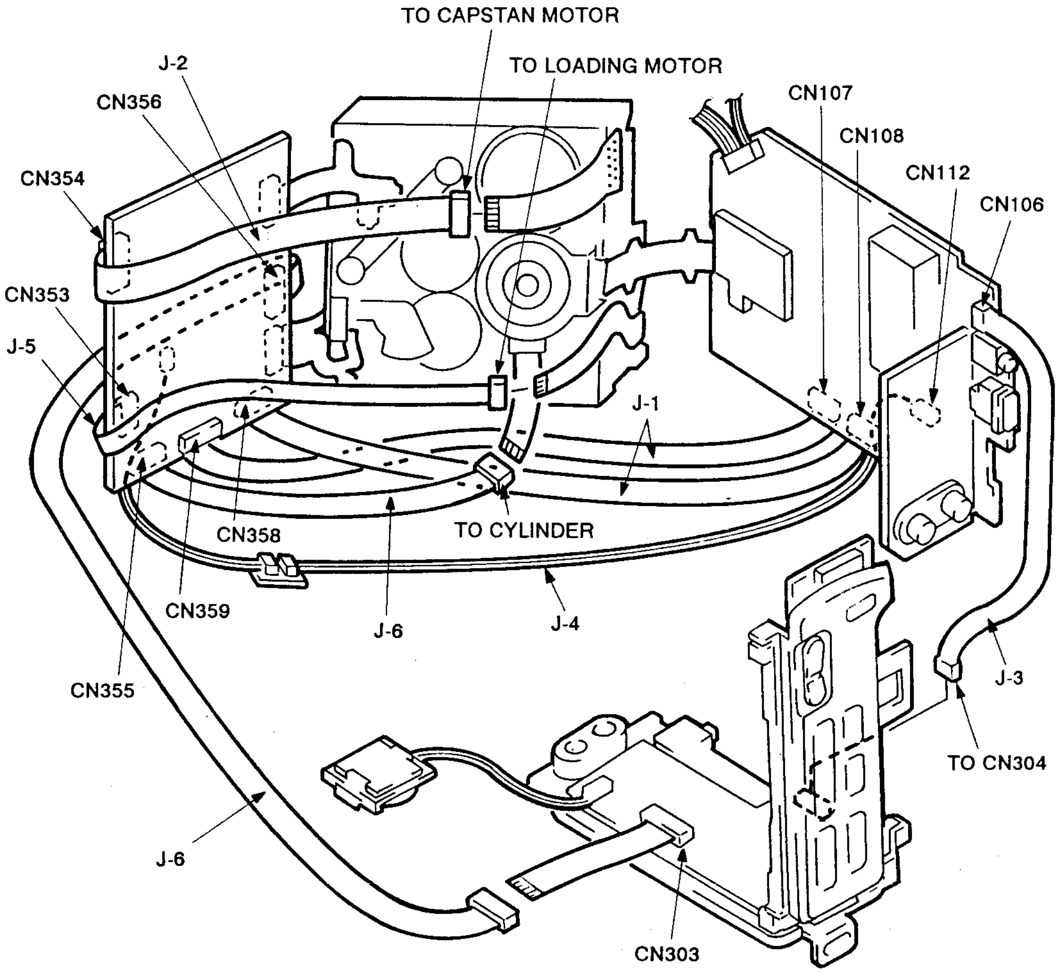
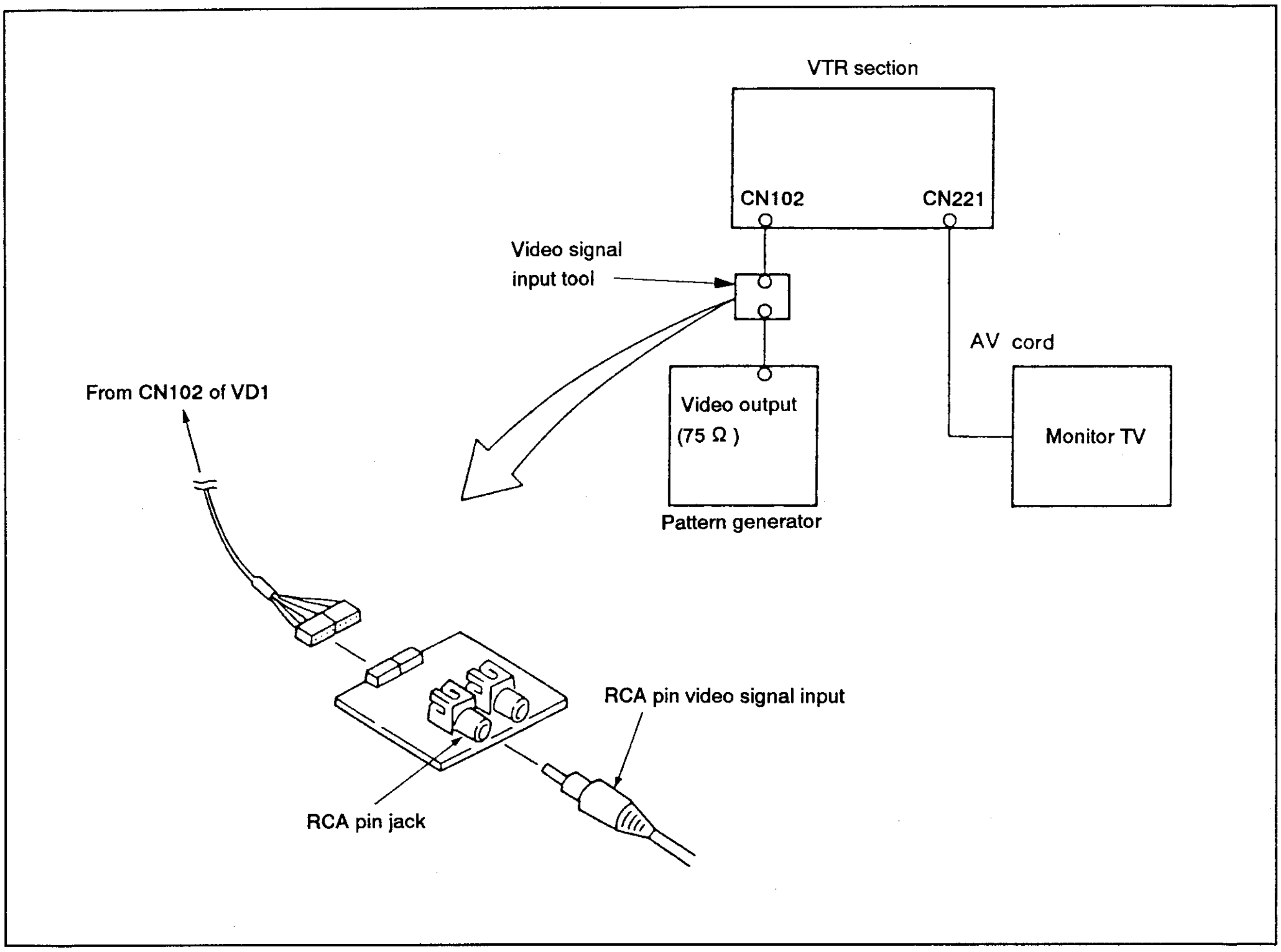

TO CAPSTAN MOTOR
TO LOADING MOTOR
J-2
CN356
CN354
CN107
CN108
CN112
CN106
CN353
J-5
J-1
TO CYLINDER
CN358
CN359
J-6
J-4
CN355
J-3
TO CN304
J-6
CN303

Fig. 2-2. Video Block Setup and Connection

[Equipments connection when adjusting]



VTR section
CN102
CN221
Video signal input tool
AV cord
From CN102 of VD1
Video output (75 Ω)
Pattern generator
Monitor TV
RCA pin video signal input
RCA pin jack

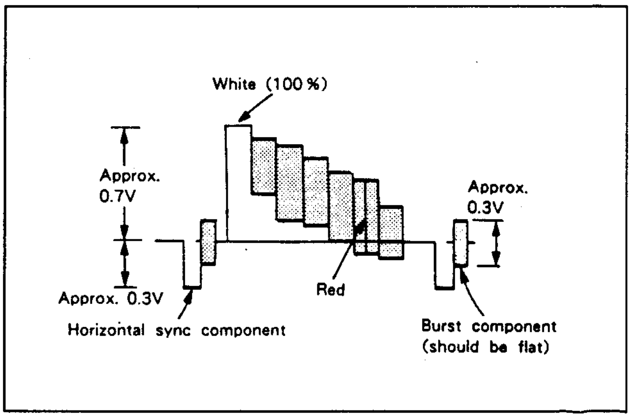
Fig. 2-3. Connection diagram

[Setup for adjustment]

For adjustment of the VTR section, the video signal from the pattern generator is used as the adjustment signal. Therefore, it is necessary that this video output signal is within the specified level.

Connect the oscilloscope to CN102 ④ on the VD1 board. Confirm that the amplitude of the sync signal of the video signal is about 0.3V, and that the amplitude of the video section is about 0.7V, and that the amplitude of the burst signal is about 0.3V and is flat and that the level ratio of the burst signal and the "red" signal is 0.30:0.66.

The video signal to be used for the VTR adjustment is shown in Fig. 2-4.



White (100%)
Approx. 0.7V
Approx. 0.3V
Approx. 0.3V
Red
Horizontal sync component
Burst component (should be flat)

Fig. 2-4. Color bar signal from the pattern generator

2-1. SYSTEM CONTROL AND SERVO SYSTEM ADJUSTMENTS

[Adjustment order]

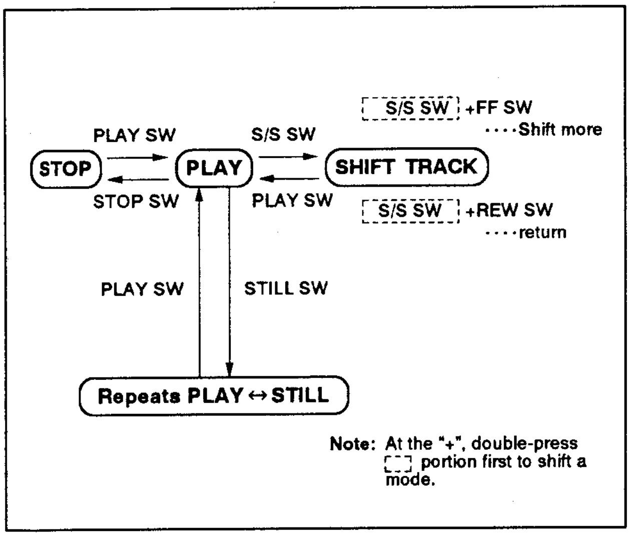
1) Crystal oscillation frequency adjustment for clock
2) On screen character position adjustment
3) Battery low voltage adjustment
4) Switching position adjustment
5) Still noise position adjustment

[ADJ mode]

It can be entered ADJ mode by short-circuiting Pins ① and ② of CN305 on the SY1 board with a clip. However, when in CAMERA mode (POWER SW CAMERA side), mode shifting cannot be made as shown below.

[ADJ function]

- Stops the reel rotation checking operation.
- Stops the discrimination of SP/LP mode in playback mode. In this case, S3007 (EDIT SW) sets SP mode by EDIT OFF, and LP mode by EDIT ON.



Note: At the "+", double-press [ ] portion first to shift a mode.

Fig. 2-5. ADJ mode transition

2-1-1. Crystal Oscillation Frequency Adjustment for Clock

Power Switch: VTR or CAMERA side
Mode: ADJ mode E-E
(STOP mode)
Input Signal: Arbitrary
Measurement Point: TP301 (SY1 board)
Measurement Equipment: Universal counter
Adjustment CT: CT301 (SY1 board)
Specified Value: 488.281 ± 0.002 μsec

Connection:

Connect TP141 (GND) or POWER GND to the minus side of the counter input, and TP301 to the plus side.

Adjusting method:

Set the measurement period to 488.281 ± 0.002 μsec using CT301.

Note: The universal counter should be adjusted strictly.

2-1-2. On Screen Character Position Adjustment

Power Switch: CAMERA side
Mode: ADJ mode without cassette
(STOP mode)
Input Signal: Arbitrary
Measurement Point: TV monitor screen
Measurement Equipment: TV monitor screen
Adjustment CT: CT321 (SV1 board)
Specification: Center the center mark on the monitor screen.

Adjusting method:

Adjust so that the displayed center mark comes to the center of the monitor screen with CT321.

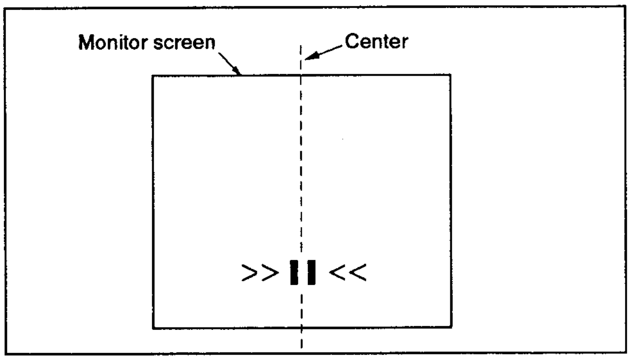


Fig. 2-6.

Note: Perform this adjustment after the H sync oscillation frequency adjustment.

2-1-3. Battery Low Voltage Adjustment

Power Switch: CAMERA side
Mode: ADJ mode without cassette (STOP mode)
Input Signal: Arbitrary
Measurement Point: TV monitor screen
Measurement Equipment: Digital multimeter
Adjustment VR: VR353 (SV1 board)
Specification: Blink the center mark on the monitor screen.

Note: The voltage measurement must be performed with battery terminal on the deck.
Use as short and thick lead wire as possible to connect from the DC power supply to the unit.

Adjusting method;

1) Adjust the output voltage of DC power supply so that the voltage readings on the digital multimeter shows;
   5.43 ± 0.01V (when the camera block is not connected.)
   5.45 ± 0.01V (when the camera block is connected.)
2) Adjust with VR353 so that the displayed center mark "▌▌" blinks.
   At this time, adjust so that the blinking "▌▌" shifts from its left ">" to the center. (Refer to Fig. 2-7.)

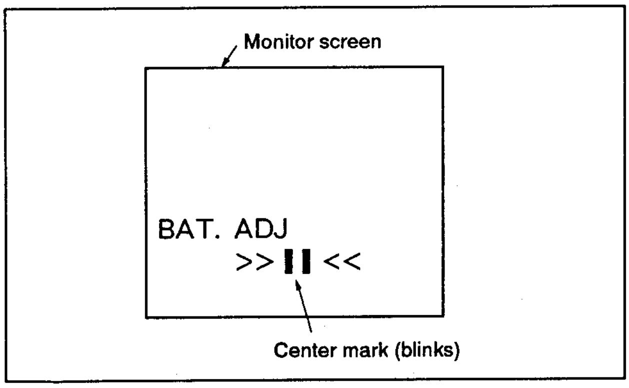


Fig. 2-7.

2-1-4. Switching Position Adjustment

Power Switch: VTR side
Mode: ADJ mode PLAY
Alignment tape: WR5-5CSP
Measurement Point: CH1: RFSW (Pin ② of CN104 on VD1 board) (Sync trigger)
CH2: LINE OUT (TP231 on VD2 board)
GND: GND (Pin ① of CN104 on VD1 board)
Measurement Equipment: Oscilloscope
Adjustment VR: VR352 (SV1 board)
Specified Value: 6.5 ± 0.3H

Adjusting method:
Adjust the vertical sync signal to 6.5H from the rising edge (or falling edge) of the RFSW with VR352.

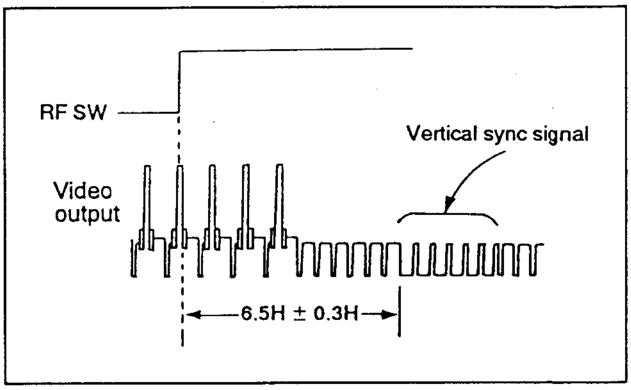


Fig. 2-8.

3-1-5. Still Noise Position Adjustment

Power Switch: VTR side
Mode: STILL↔PLAY (only in ADJ mode)
Signal: Self-recorded tape (Use the midsection of a 90 minutes tape)
PAL: LP mode
NTSC: SP mode
Measurement Point: TV monitor screen
Measuring Equipment: TV monitor screen
Adjustment VR: VR351 (SV1 board)
Specification: Equalize the noise bars above and below

Adjusting method:
Adjust with VR351 to equalize the noise bars above and below on the monitor screen.

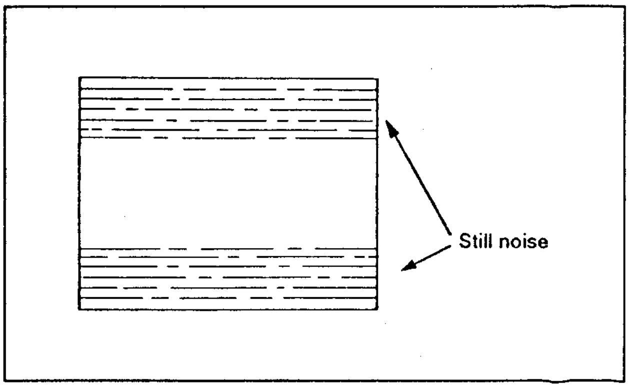


Fig. 2-9.

After the adjustments of the system control and servo system are completed, remove short clip from Pins ① and ② of CN305 (SY1 board) to release ADJ mode.

2-2. VIDEO SYSTEM ADJUSTMENT

When adjust the video system, follow the order below in principle. The color video signal supplied from the pattern generator is used as the video input signal for the video system adjustment of REC mode. Confirm that the level of sync and color burst signals meet the specification for set up as shown in Fig. 2-4.

Note 1: When setting the RECORD MODE while video system adjustment, connect jumper wire between TP393 and TP394 on the VD1 board.

Note 2: When set to TEST MODE in 2-2-4, 2-2-5 and 2-2-6, short Pins ① and ② of CN305 on the SY1 board.

Adjustment order:

1) Playback frequency characteristics check
2) Flying erase check
3) Sync AGC adjustment
4) Trap fo adjustment
5) Comb filter phase adjustment
6) Comb filter level adjustment
7) PB Y level adjustment
8) PB line out level adjustment
9) Y FM carrier frequency adjustment
10) Y FM deviation adjustment
11) REC Y recording current adjustment
12) REC C recording current adjustment
13) REC AFM recording current Check
14) REC ATF recording current adjustment

2-2-1. Playback Frequency Characteristics Check (VD1 Board)

Check elements for CH-2 are shown in [ ].

Mode:	Playback
Alignment Tape:	For frequency characteristics check (WR5-2C or WR5-6C)
Check Head:	CH-1, [CH-2]
Oscilloscope CH1:	Pin ③ of CN104 on VD1 board [Pin ③ of CN104]
External Trigger:	Pin ② of CN104 on VD1 board [Pin ② of CN104]
Trigger Slope:	+, [–]

Checking method:

Confirm that the ratio between 3.58 MHz level and 5.5 MHz level is 4:3.

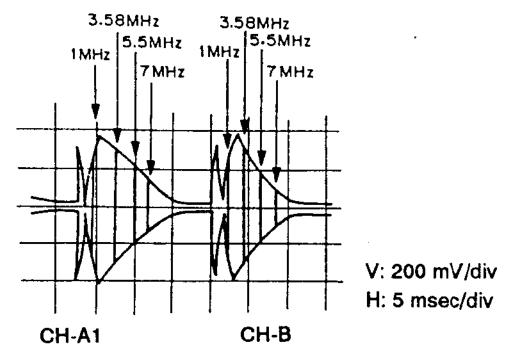


Fig. 2-10. Playback frequency characteristics

2-2-2. Flying Erase Check

Mode:	Record
Input Signal:	Arbitrary
Oscilloscope:	TP181 (Erase check terminal)

Checking method:

Confirm that the oscillation frequency is 7.5 MHz to 9.0 MHz, and that the oscillation voltage is 7.0 Vp-p to 11.5 Vp-p.

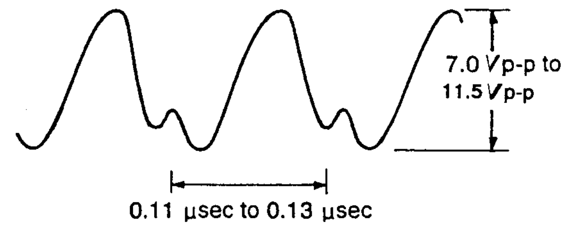


Fig. 2-11. Flying erase check

2-2-3. SYNC AGC Adjustment (VD1 Board)

Mode:	E-E
Input Signal:	Color bar
Oscilloscope:	TP106
External Trigger:	TP107

Adjusting method:

Adjust with VR103 to 0.5 ± 0.01 Vp-p.

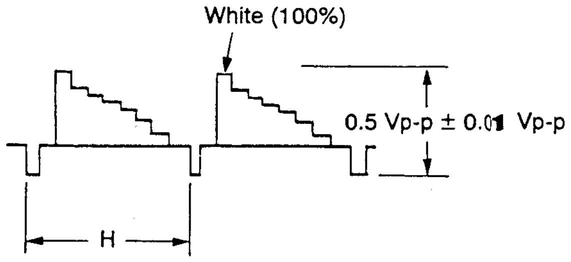


Fig. 2-12. SYNC AGC adjustment

2-2-4. Trap fo Adjustment (VD1 Board)

Mode: E-E (TEST)
Input Signal: Color bar
Oscilloscope: TP145

Adjusting method:
Connect TP108 and TP101.
Adjust with VR101 so that the amplitude (residual chroma level) of green (third from left) becomes minimum (below 75 mVp-p).

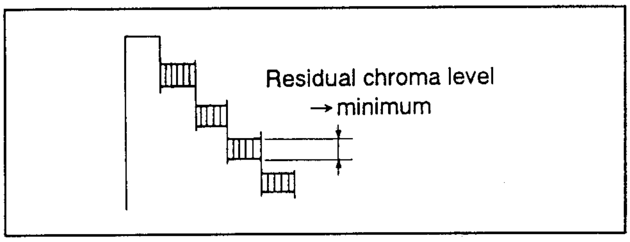


Fig. 2-13. Trap fo adjustment

2-2-5. Comb Filter Phase Adjustment (VD1 Board)

Mode: E-E (TEST)
Input Signal: Color bar
Oscilloscope: TP109
External Trigger: TP107

Adjusting method:
Adjust with VR111 so that the amplitude (residual chroma level) of green (third from left) becomes minimum.

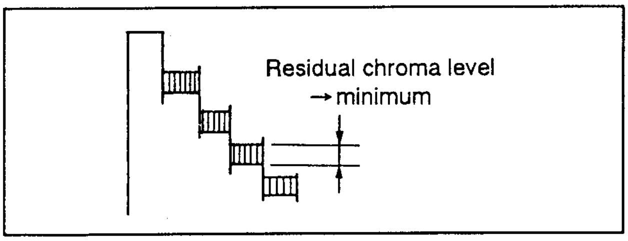


Fig. 2-14. Comb filter phase adjustment

2-2-6. Comb Filter Level Adjustment (VD1 Board)

Mode: E-E (TEST)
Input signal: Color bar
Oscilloscope: TP109
External Trigger: TP107

Adjusting method:
Adjust with VR102 so that the amplitude (residual chroma level) of green (third from left) becomes minimum (below 20 mVp-p).

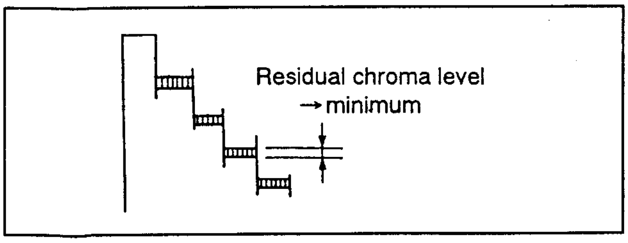


Fig. 2-15. Comb filter level adjustment

2-2-7. PB Y Level Adjustment (VD1 Board)

Mode: Playback
Alignment Tape: For operation check (WR5-5CSP)
Color bar portion
Oscilloscope: TP103
External Trigger: TP107

Adjusting method:
Adjust with VR109 to 0.5 ± 0.01 Vp-p.

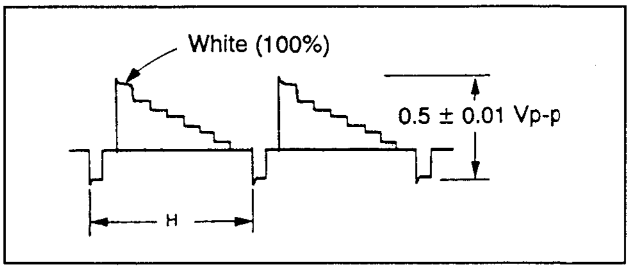


Fig. 2-16. PB Y level adjustment

2-2-8. PB LINE OUT Level Adjustment (VD1 Board)

Mode: Playback
Alignment Tape: For operation check (WR5-5CSP)
Color bar portion
Oscilloscope: TP104 (VIDEO OUT)
An AV cord should be connected, and the video output terminal should be terminated at 75Ω .

Adjusting method:
Adjust with VR106 to 1.00 ± 0.02 Vp-p.

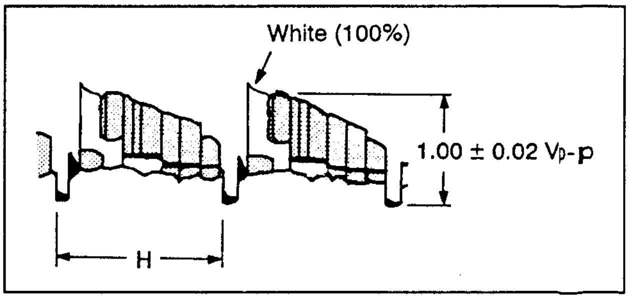


Fig. 2-17. PB LINE OUT level adjustment

2-2-9. Y FM Carrier Frequency Adjustment (VD1 Board)

Mode:	Record
Input Signal:	No signal
Oscilloscope:	TP131
Frequency Counter:	TP131

Adjusting method:

Adjust with VR104 to 4.39 ± 0.05 MHz.

Note: If adjusted to 4.39 MHz in no signal state, the frequency is set to 4.20 MHz when there is a signal.

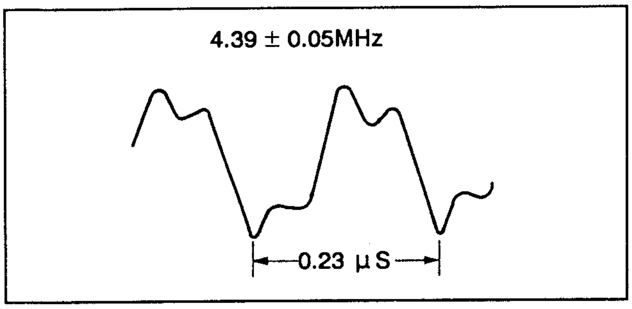


Fig. 2-18. Y FM carrier frequency adjustment

2-2-10. Y FM Deviation Adjustment (VD1 Board)

Mode:	Record and playback
Input Signal:	Color bar (Y signal only)
Oscilloscope:	TP104 (VIDEO OUT)

Note 1: An AV cord should be connected, and the video output terminal should be terminated at 75Ω.

Note 2: Sync AGC adjustment, PB Y level adjustment, PB LINE OUT level adjustment, and Y FM carrier frequency adjustment should be completed beforehand.

Adjusting method:

1) Record the color bar Y signal.
2) Play back the recorded level.
3) Check the playback level.
   It should be within 1.00 ± 0.05 Vp-p.
4) When the level does not meet the specification, turn VR105 on the VD1 board as follows, and repeat 1) to 3).

	Rotating direction of VR105
When larger than specified value	Clockwise (○)
When smaller than specified value	Counterclockwise (○)

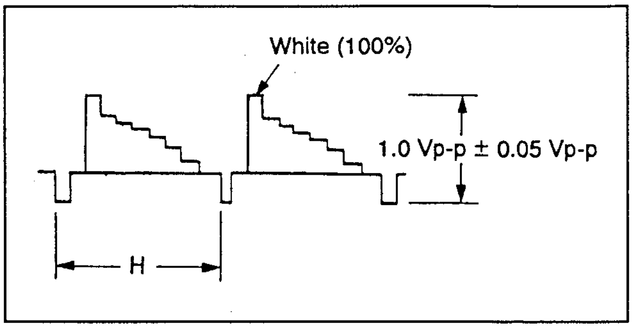


Fig. 2-19. Y FM deviation adjustment

2-2-11. REC Y Recording Current Adjustment (VD1 Board)

Mode:	Record
Tape:	MP type
Input Signal:	No signal
Oscilloscope:	TP131

Adjusting method:

Adjust with VR131 to 220 mVp-p.

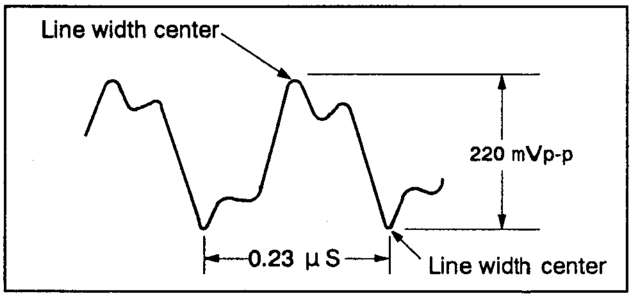


Fig. 2-20. REC Y recording current adjustment

2-2-12. REC C Recording Current Adjustment (VD1 Board)

Mode:	Record
Tape:	MP type
Input Signal:	Color bar
Oscilloscope:	TP132

Adjusting method:

Adjust with VR132 so that the burst level becomes 115 mVp-p.

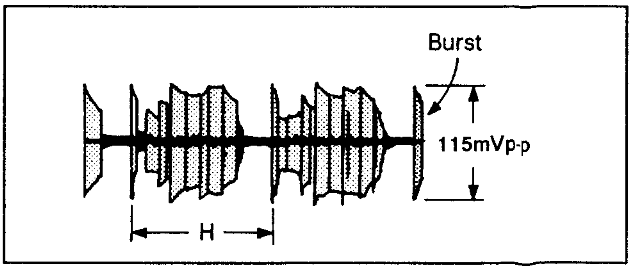


Fig. 2-21. REC C recording current adjustment

2-2-13. REC AFM Recording Current Check (VD1 Board)

Mode:	Record
Tape:	MP type
Input Signal:	Color bar
Audio Input Signal:	No signal
Oscilloscope:	TP133

Checking method:
Confirm that the oscillation voltage is 30mVp-p.

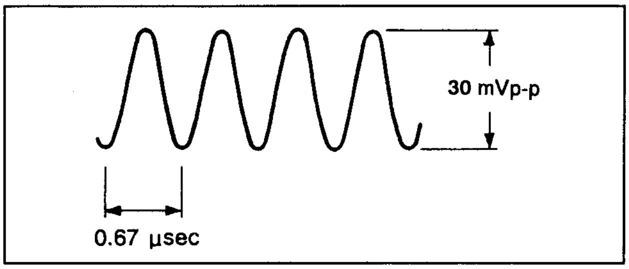


Fig. 2-22. REC AFM recording current check

2-2-14. REC ATF Recording Current Adjustment (VD1 Board)

Mode:	Record
Tape:	MP type
Input Signal:	Color bar (composite signal)
Oscilloscope:	TP134

Adjusting method:
Adjust with VR134 to 210 mVp-p.

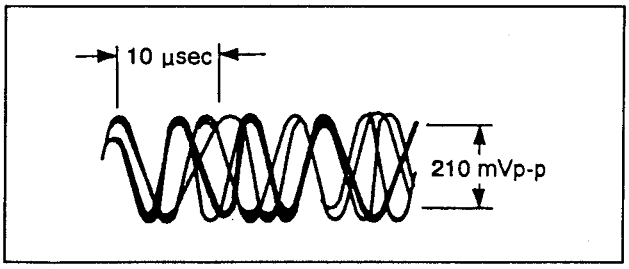


Fig. 2-23. REC ATF recording current adjustment

2-3. AUDIO SYSTEM ADJUSTMENT

[Measuring equipments connection]

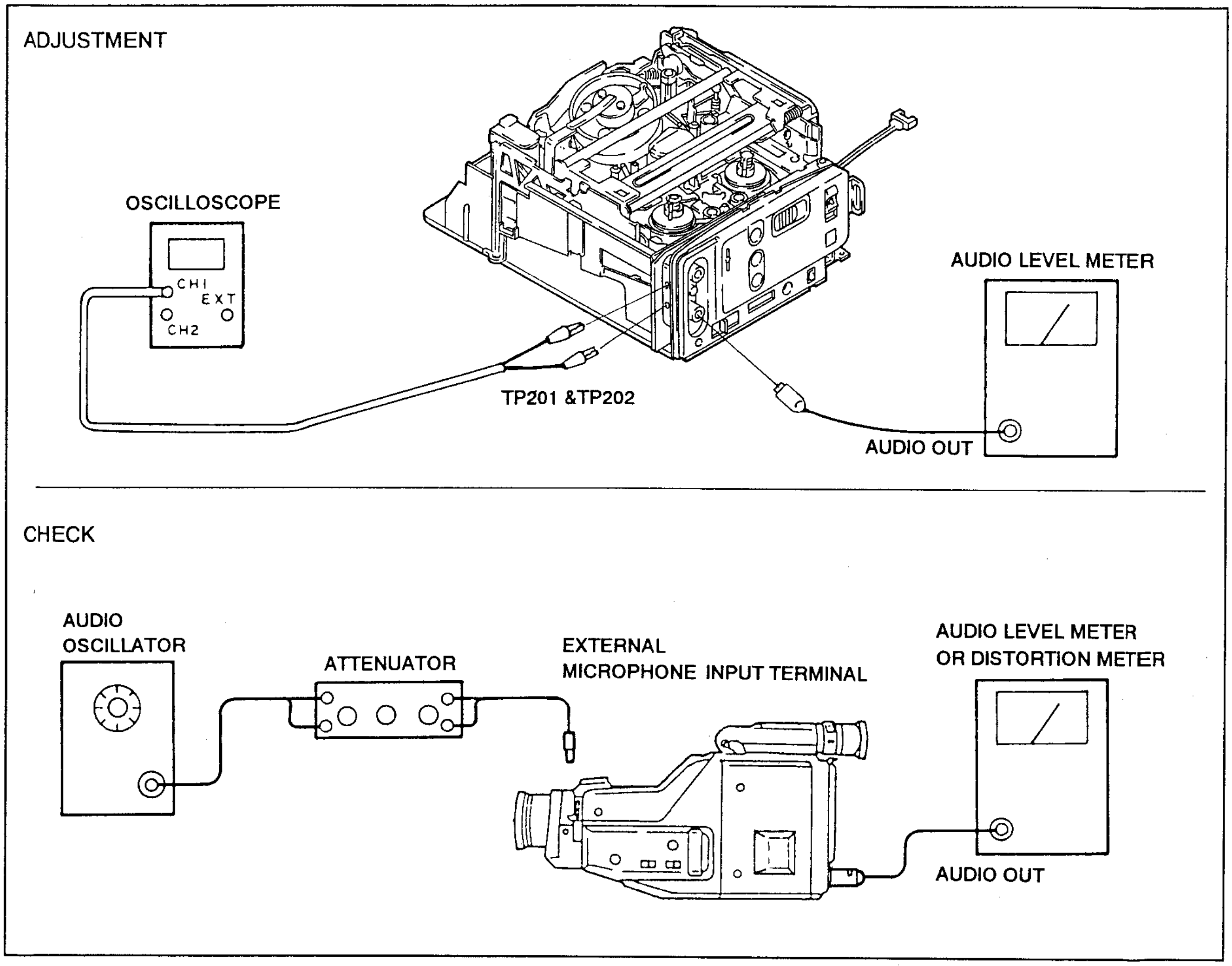

ADJUSTMENT
OSCILLOSCOPE
CH1
EXT
CH2
TP201 &TP202
AUDIO LEVEL METER
AUDIO OUT
CHECK
AUDIO OSCILLATOR
ATTENUATOR
EXTERNAL MICROPHONE INPUT TERMINAL
AUDIO LEVEL METER OR DISTORTION METER
AUDIO OUT

Fig. 2-27.

Adjustment order:

1) fo adjustment
2) Deviation check
3) Overall level check
4) Overall S/N check

2-3-1. fo Adjustment (VD2 Board)

Mode: Playback
Playback Tape: For operation check (WR5-5CSP)
Audio Input: No signal
Oscilloscope: HOT: TP201, GND: TP202

Adjusting method:

1) Connect the oscilloscope to TP201 and TP202 on the VD2 board then play the operation check tape back.
2) Set the oscilloscope to AC 50 mV/div, 0.5 µsec/div and adjust VR201 on the VD2 board so that playback FM waveform has the same amplitude in high frequency range and low frequency range.
3) Expanding sweep of the time base to 0.1 µsec/div will.

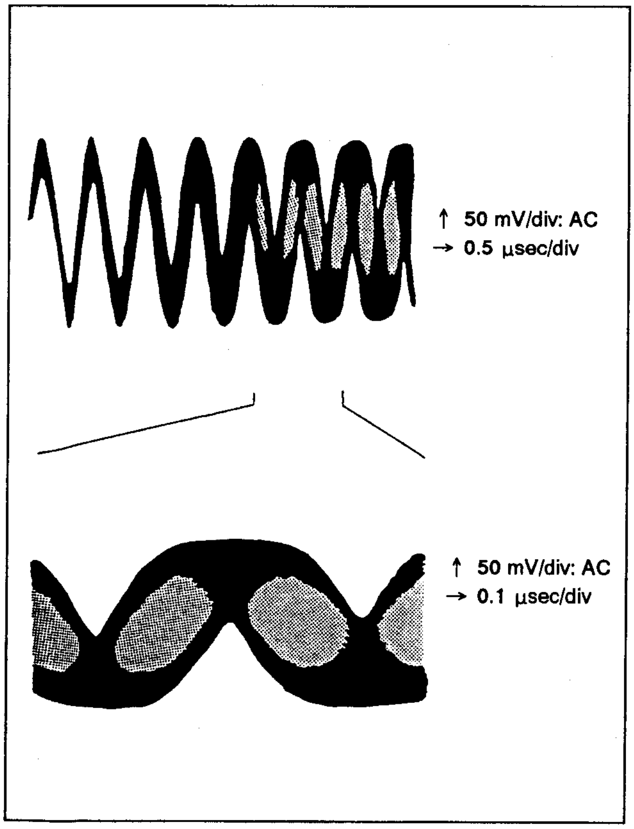


Fig. 2-28.

2-3-2. Deviation Check

Mode: Play back
Playback Tape: For operation check (WR5-5CSP)

Checking method:

1) Play back.
2) Confirm that the audio output level –7 ± 2 dBs.

2-3-3. Overall Level Check

Mode: Self-recording/playing back (SP)
Tape: MP type
Audio Input: 1 kHz, –66 dBs

Checking method:

1) Record.
2) Play back the recorded portion.
3) Confirm that the audio output level is –7 ± 3 dBs and the distortion ratio is less than 3%.

Note: Turn on the HPF button (400 Hz) of the distortion meter.

2-3-4. Overall S/N Check

Mode: Self-recording/playing back (SP)
Tape: MP type
Audio Input: Short-circuited at the audio input end (No signal)

Checking method:

1) Record.
2) Play back the recorded portion.
3) Confirm that the (playback level in 2-3-3.) dBs–(playback level in this step) dBs is over 35 dB.
   (In case of JIS A audio corrections, it should be over 40 dB.)

Note: Since the audio input level is extreme low, be careful of noises such as inductive hum, etc.

3. EVF SECTION ADJUSTMENTS

[Required Equipment]

1. Frequency counter
2. Alignment tape
   For operation check (WR5-5CSP)
   Part code 8-967-995-47

[Procedure]

Note: Follow the sequence below.

1. Horizontal Oscillation Frequency Adjustment
2. Viewfinder Provisional Adjustment
3. Centering Adjustment
4. Horizontal Size & Viewfinder Slant Adjustment
5. Vertical Size Adjustment
6. Brightness Adjustment
7. Focus Adjustment

3-1. HORIZONTAL OSCILLATION FREQUENCY ADJUSTMENT

Mode: E-E
Input signal: None
Frequency counter: IC (AN2512S) ⑭ pin

Adjusting method:

Adjust to 16300 ± 100 Hz with VR1.

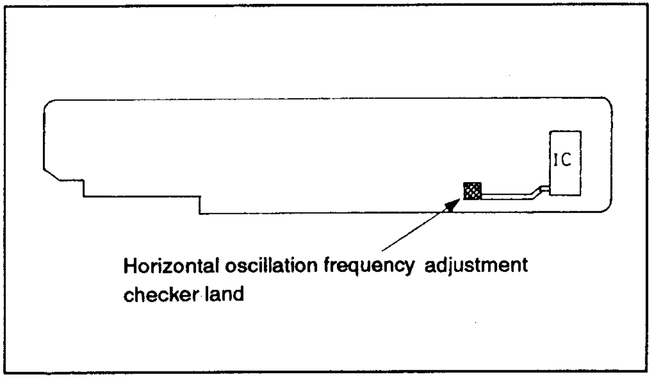


Fig. 3-1

3-2. VIEWFINDER PROVISIONAL ADJUSTMENT

Mode: Playback
Aignment tape: Monoscope section of the operation check tape (WR5-5CSP)

Adjusting method:

1) Turn VR5 (BRIGHT) to obtain adequate brightness.
2) Turn VR2 (V SIZE) to adjust picture size.
3) Adjust VR5 (BRIGHT) and VR4 (FOCUS) so that a proper picture display is obtained.

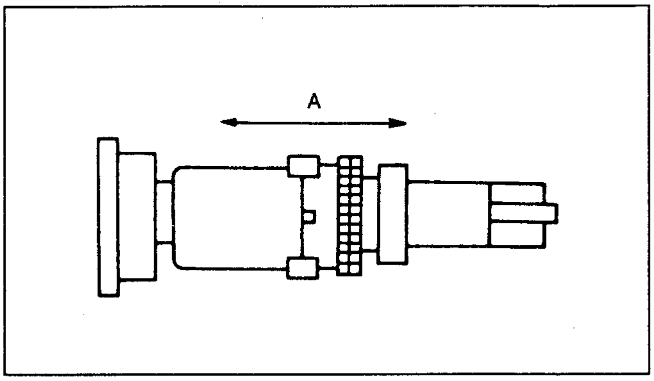


Fig. 3-2

3-3. CENTERING ADJUSTMENT

Mode: Playback
Alignment tape: Monoscope section of the operation check tape (WR5-5CSP)

Adjusting mothod:

1) Turn the centering magnet to center the picture.
2) Fix the centering magnet with lacquer.

3-4. HORIZONTAL SIZE & VIEWFINDER SLANT ADJUSTMENT

Mode: Playback
Input signal: Monoscope section of the operation check tape (WR5-5CSP)

Adjusting method:

1) Move the deflection coil in the direction of arrow A, and adjust the horizontal size within 87.5 to 92.5 on the horizontal size scale of the monoscope signal.
2) Turn the deflection coil so that picture slant is within 0° ± 1.5° (The difference between right and left should be within 2.5 on the vertical size scale of the monoscope signal).
3) Fix the deflection coil with the yoke clamp.

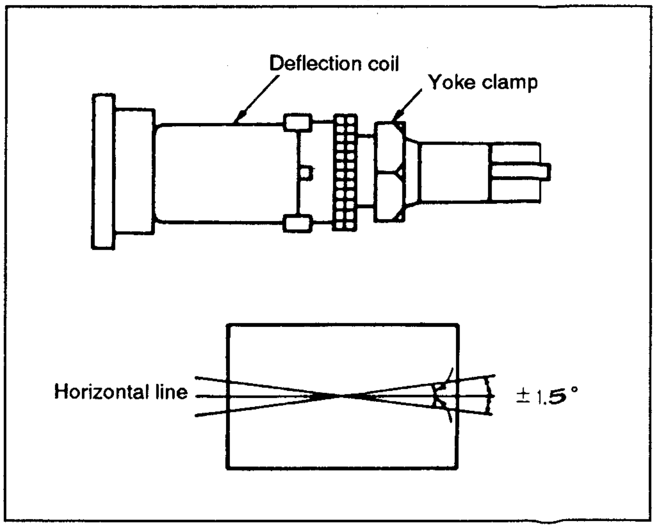


Fig. 3-3

3-5. VERTICAL SIZE ADJUSTMENT

Mode: Playback
Alignment tape: For operation check (WR5-5CSP)
(Monoscope)

Adjusting method:
Turn and adjust VR2 within 87.5 to 92.5 on the vertical size scale of the monoscope signal.

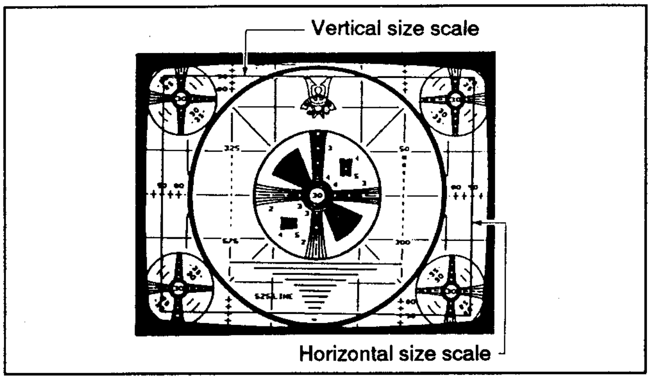


Fig. 3-4 Circular Monoscope Pattern

3-6. BRIGHTNESS ADJUSTMENT

Mode: Playback
Alignment tape: For operation check tape
(WR5-5CSP)

Adjusting method:
Adjust to adequate brightness with VR5.

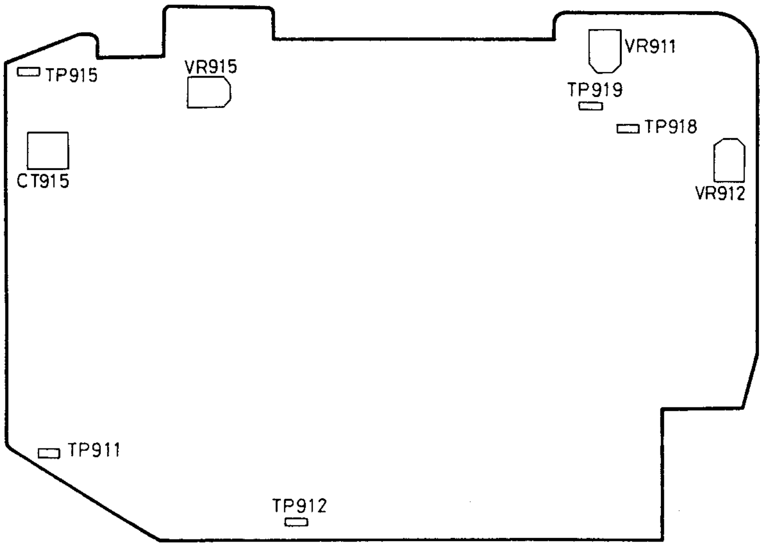
3-7. FOCUS ADJUSTMENT

Mode: Playback
Alignment tape: Monoscope section of the operation check tape (WR5-5CSP)

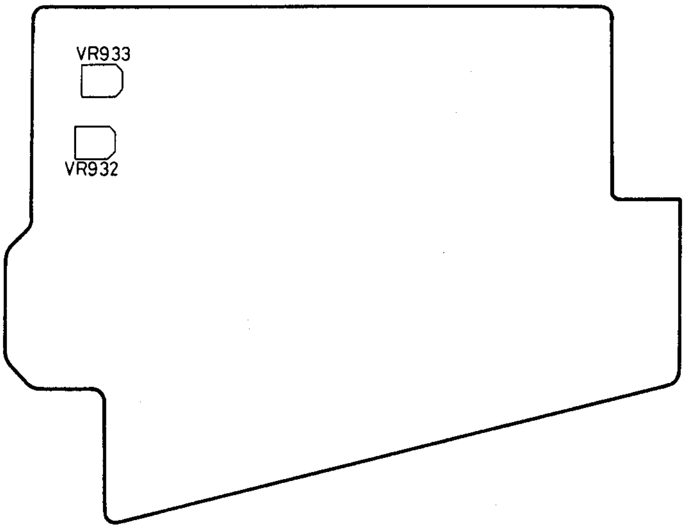
Adjusting method:
Adjust VR4 so as to optimize resolution of the monoscope pattern.

4. VR, TP LOCATION

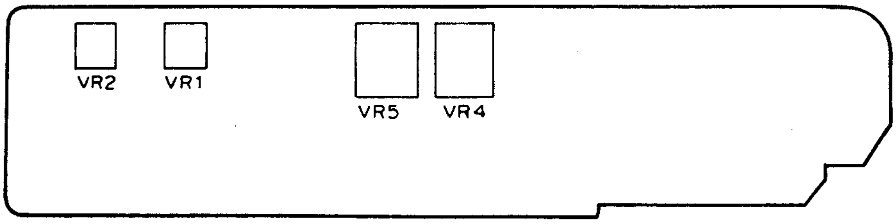
CA1 Board (SIDE B)


VR911
TP915
VR915
TP919
TP918
CT915
VR912
TP911
TP912

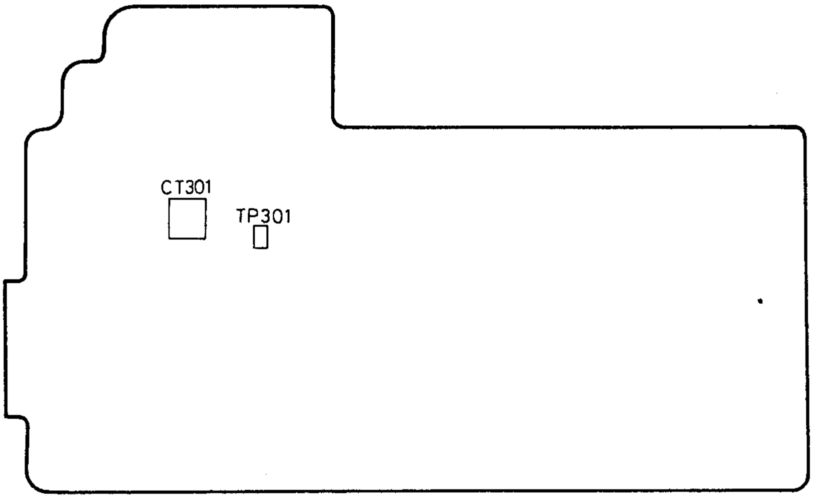
TC1 Board (SIDE A)


VR933
VR932

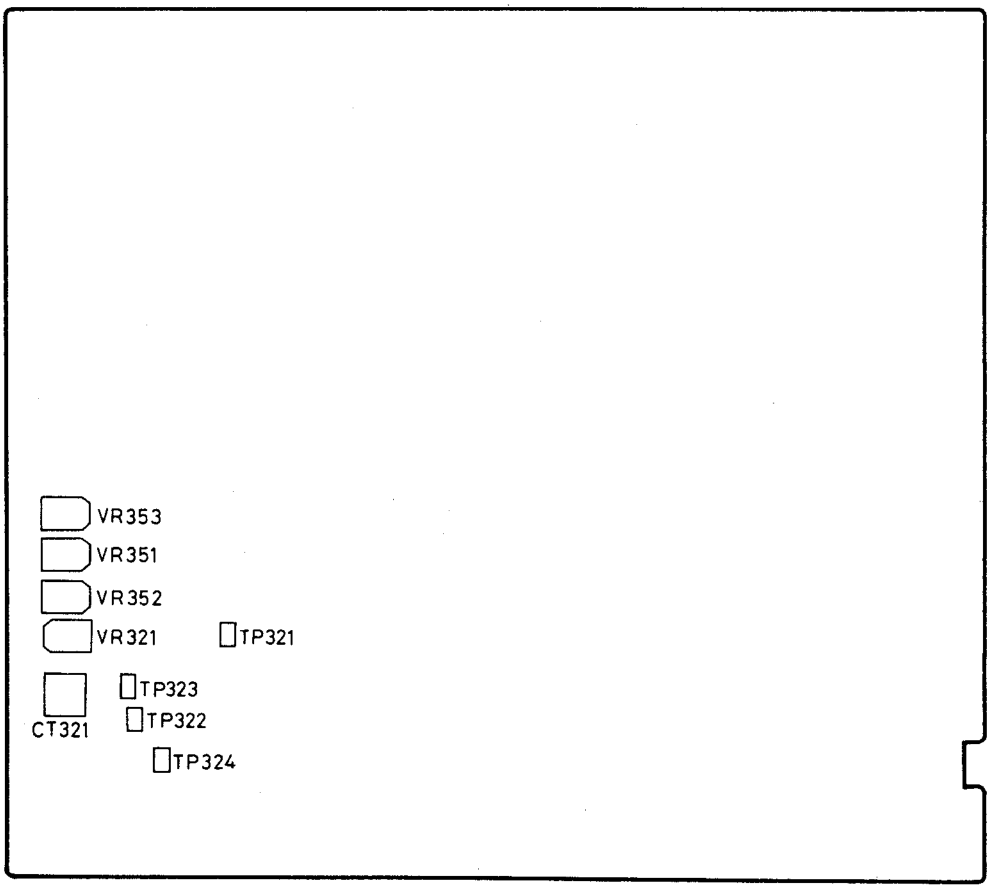
VF1 Board (SIDE A)


VR2
VR1
VR5
VR4

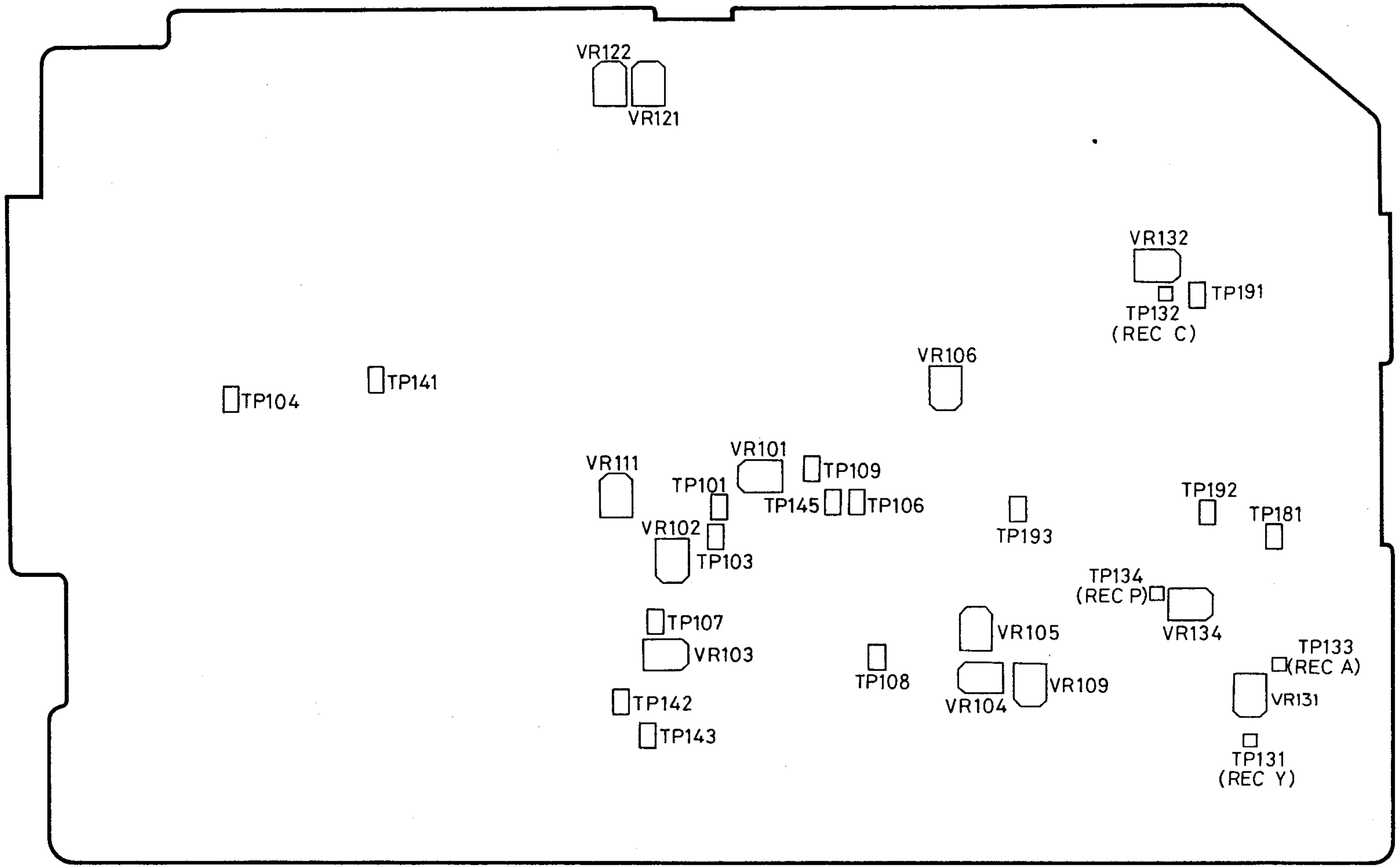
SY1 Borad (SIDE A)


CT301
TP301

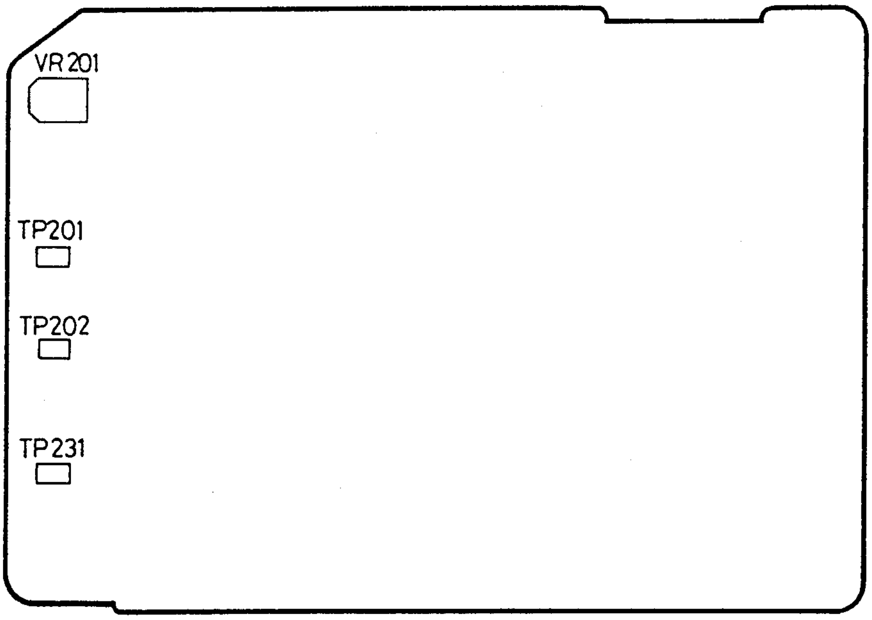
SV1 Boord (SIDE A)

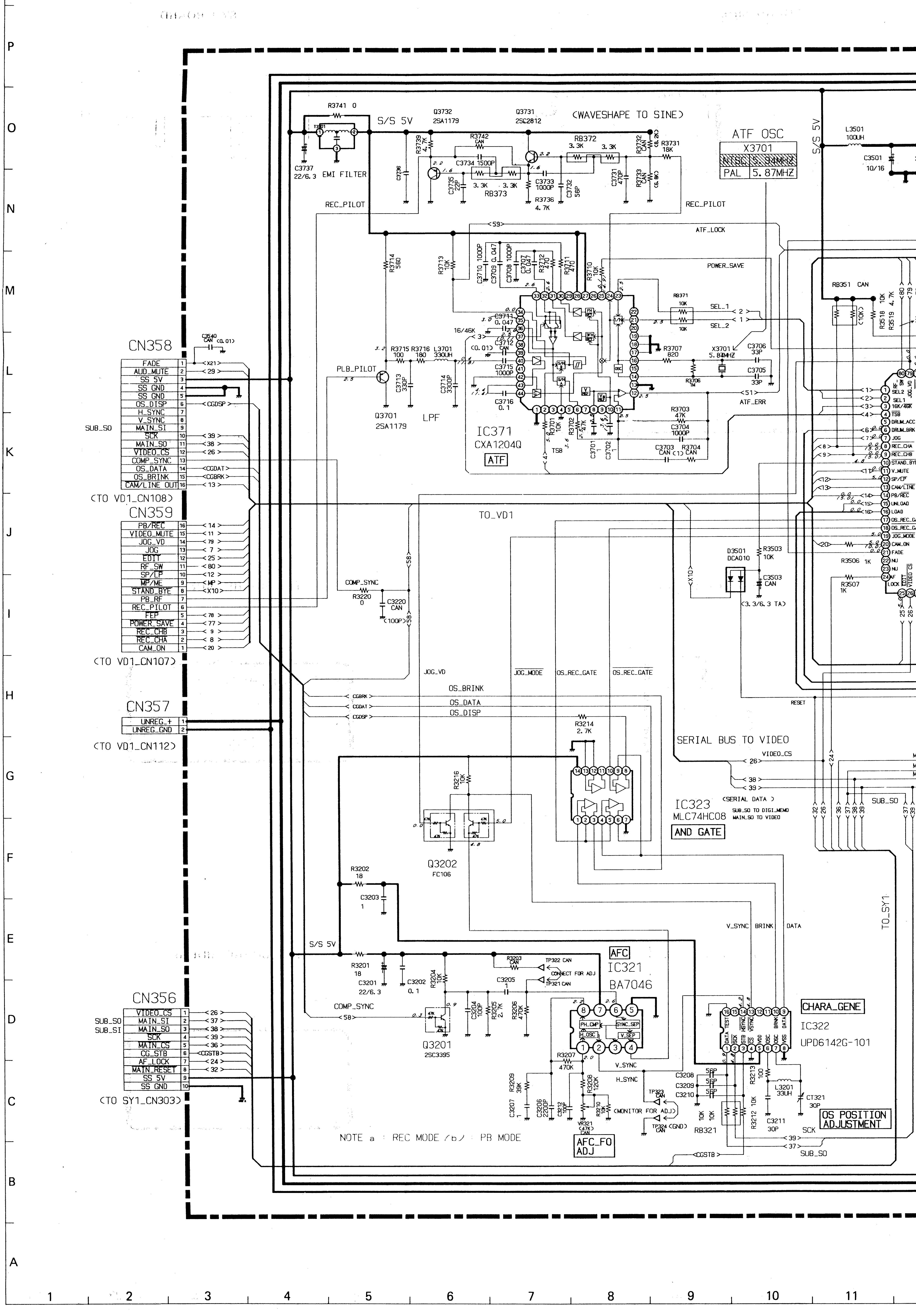

VR353
VR351
VR352
VR321
TP321
TP323
TP322
CT321
TP324

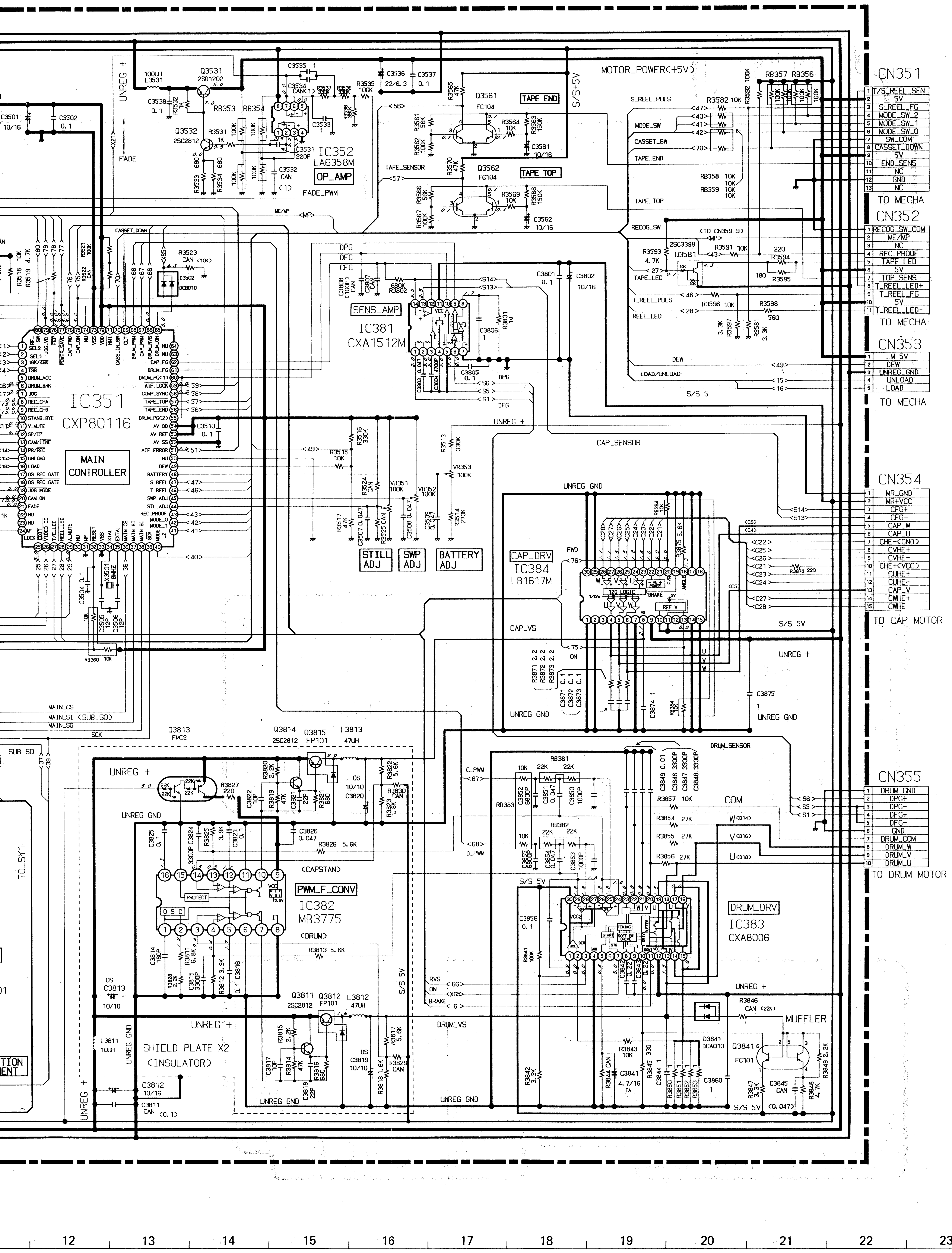
VD1 Board (SIDE A)


VR122
VR121
VR132
TP191
TP132
(REC C)
VR106
TP141
TP104
VR111
VR101
TP109
TP101
TP145
TP106
TP193
TP192
TP181
VR102
TP103
TP134
(REC P)
VR134
TP107
VR105
VR103
TP133
(REC A)
TP108
VR109
VR104
VR131
TP142
TP143
TP131
(REC Y)

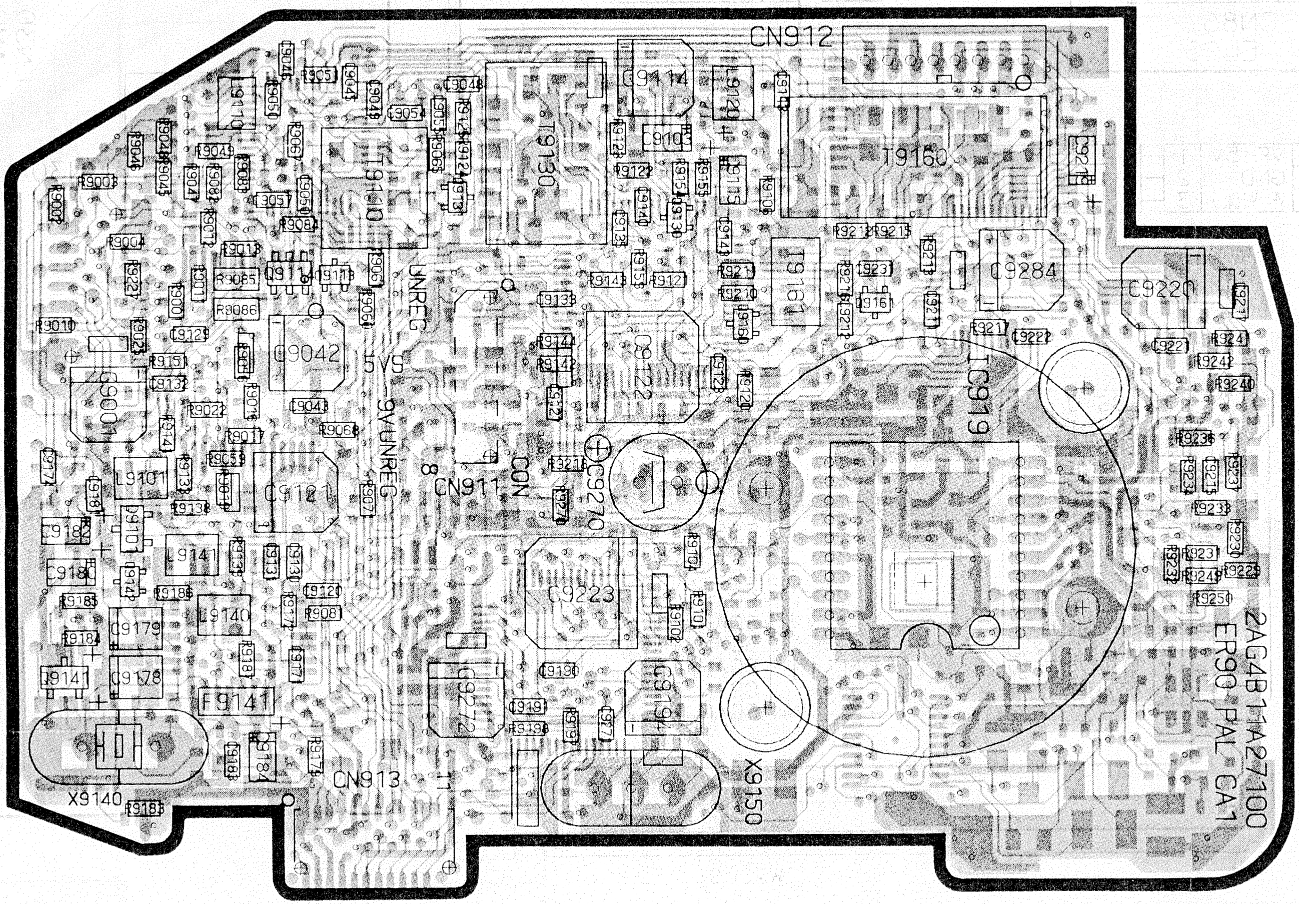
VD2 Board (SIDE A)


VR201
TP201
TP202
TP231

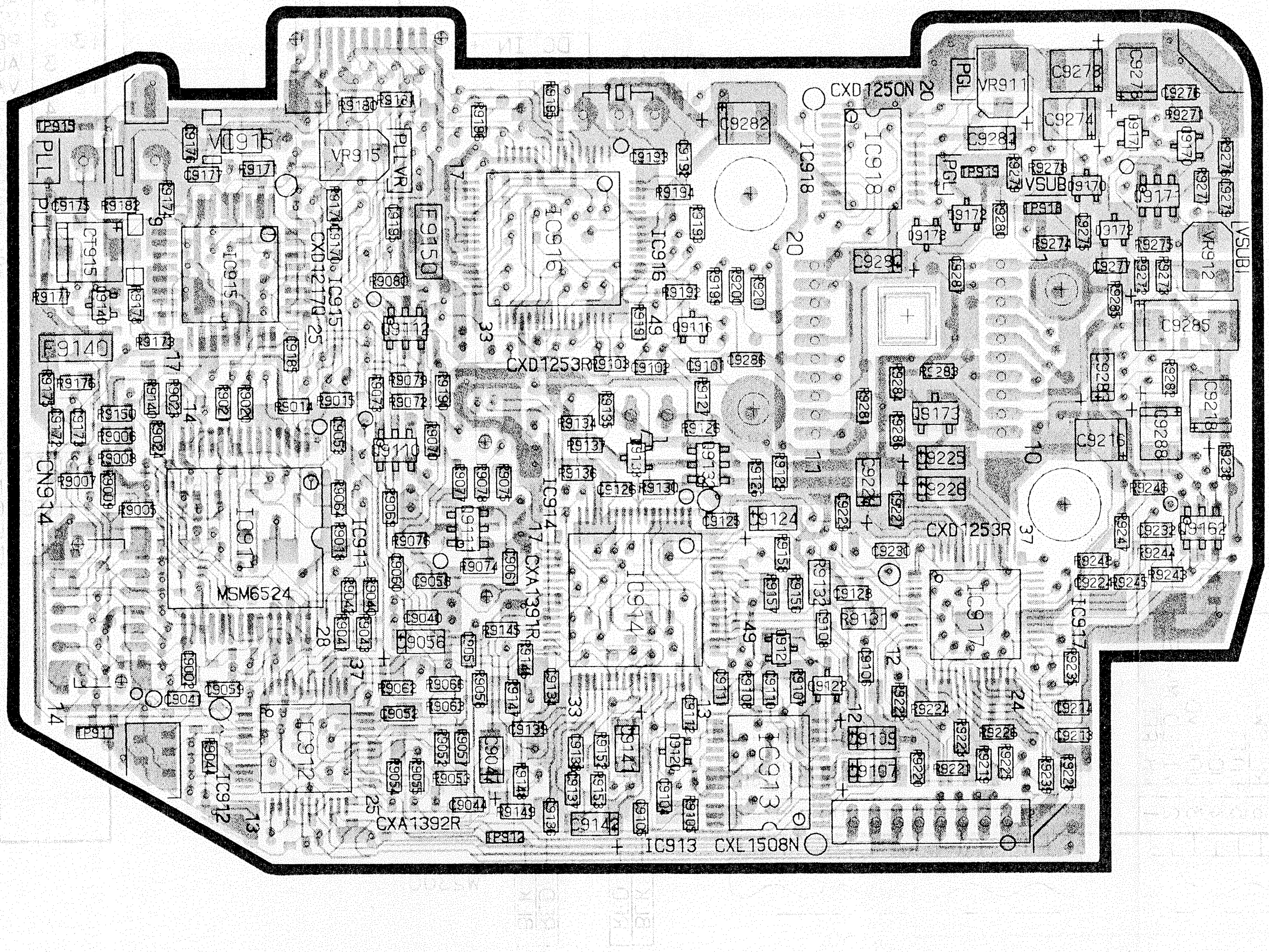

S/S 5V
EMI FILTER
(WAVESHAPE TO SINE)
ATF OSC
X3701
NTSC 5.84MHZ
PAL 5.87MHZ
REC_PILOT
ATF_LOCK
POWER_SAVE
SEL_1
SEL_2
PLB_PILOT
LPF
Q3701 2SA1179
Q3732 2SA1179
Q3731 2SC2812
IC371
CXA1204Q
ATF
ATF_ERR
TSB
CN358
FADE
AUD_MUTE
SS_5V
SS_GND
SS_GND
OS_DISP
H_SYNC
V_SYNC
MAIN_SI
SCK
MAIN_SO
VIDEO_CS
COMP_SYNC
OS_DATA
OS_BRINK
CAM/LINE OUT
SUB_SO
(TO VD1_CN108)
CN359
PB/REC
VIDEO_MUTE
JOG_VD
JOG
EDIT
RF_SW
SP/LP
MP/ME
STAND_BYE
PB_RF
REC_PILOT
FEP
POWER_SAVE
REC_CHB
REC_CHA
CAM_ON
(TO VD1_CN107)
CN357
UNREG_+
UNREG_GND
(TO VD1_CN112)
TO_VD1
JOG_VD
JOG_MODE
OS_REC_GATE
OS_BRINK
OS_DATA
OS_DISP
SERIAL BUS TO VIDEO
VIDEO_CS
(SERIAL DATA)
SUB_SO TO DIGI_MEMO
MAIN_SO TO VIDEO
IC323
MLC74HC08
AND GATE
Q3202 FC106
D3501 DCA010
RESET
TO_SY1
V_SYNC BRINK DATA
AFC
IC321
BA7046
PH_CMP
SYNC_SEP
H_OSC
V_SEP
CONNECT FOR ADJ
(MONITOR FOR ADJ)
AFC_FO ADJ
Q3201 2SC3395
COMP_SYNC
CHARA_GENE
IC322
UPD6142G-101
OS POSITION ADJUSTMENT
RB321
CN356
VIDEO_CS
MAIN_SI
MAIN_SO
SCK
MAIN_CS
CG_STB
AF_LOCK
MAIN_RESET
SS_5V
SS_GND
SUB_SO
SUB_SI
(TO SY1_CN303)
NOTE a : REC MODE (b) : PB MODE
RB351 CAN
L3501 100UH
C3501 10/16


IC351
CXP80116
MAIN CONTROLLER
IC352
LA6358M
OP_AMP
IC381
CXA1512M
SENS_AMP
IC384
LB1617M
CAP_DRV
IC382
MB3775
PWM_F_CONV
IC383
CXA8006
DRUM_DRV
MOTOR_POWER(+5V)
S/S+5V
UNREG +
UNREG GND
FADE
FADE_PWM
TAPE END
TAPE TOP
Q3531 2SB1202
Q3532 2SC2812
Q3561 FC104
Q3562 FC104
Q3581 2SC3398
Q3813 FMC2
Q3814 2SC2812
Q3815 FP101
Q3811 2SC2812
Q3812 FP101
Q3841 FC101
D3502 DCB010
D3841 DCA010
X3501 8MHZ
STILL ADJ
SWP ADJ
BATTERY ADJ
VR351 100K
VR352 100K
VR353 100K
CAP_SENSOR
DRUM_SENSOR
CAP_VS
DRUM_VS
C_PWM
D_PWM
COM
MUFFLER
SHIELD PLATE X2
(INSULATOR)
(CAPSTAN)
(DRUM)
MAIN_CS
MAIN_SI (SUB_SO)
MAIN_SO
SCK
SUB_SO
TO_SY1
CN351
1 T/S_REEL_SEN
2 5V
3 S_REEL_FG
4 MODE_SW_2
5 MODE_SW_1
6 MODE_SW_0
7 SW_COM
8 CASSET_DOWN
9 5V
10 END_SENS
11 NC
12 GND
13 NC
TO MECHA
CN352
1 RECOG_SW_COM
2 ME/MP
3 NC
4 REC_PROOF
5 TAPE_LED
6 5V
7 TOP_SENS
8 T_REEL_LED+
9 T_REEL_FG
10 5V
11 T_REEL_LED-
TO MECHA
CN353
1 LM 5V
2 DEW
3 UNREG_GND
4 UNLOAD
5 LOAD
TO MECHA
CN354
1 MR_GND
2 MR+VCC
3 CFG+
4 CFG-
5 CAP_W
6 CAP_U
7 CHE-(GND)
8 CVHE+
9 CVHE-
10 CHE+(VCC)
11 CUHE+
12 CUHE-
13 CAP_V
14 CWHE+
15 CWHE-
TO CAP MOTOR
CN355
1 DRUM_GND
2 DPG+
3 DPG-
4 DFG+
5 DFG-
6 GND
7 DRUM_COM
8 DRUM_W
9 DRUM_V
10 DRUM_U
TO DRUM MOTOR
12
13
14
15
16
17
18
19
20
21
22
23

CA-1 BOARD SIDE A

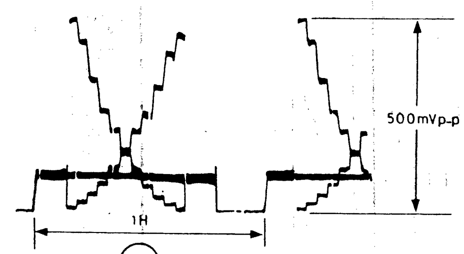

CN912
T9130
T9160
T9110
C9114
C9284
C9220
UNREG
5V
9V UNREG
IC9042
IC9122
CN911
CON
C9270
IC919
C9223
IC9212
IC9194
X9150
2AG4B11A27100
ER90 PAL CA1
IC900
C9179
C9178
F9141
X9140
CN913

CA-1 BOARD SIDE B

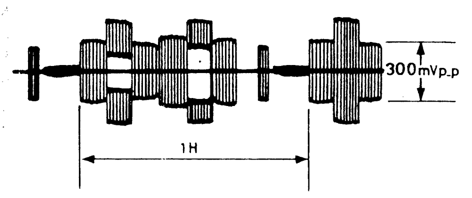

CXD1250N
IC918
VR911
C9278
C9274
VSUB
VR912
C9285
PLL
IC915
VR915
PLLVR
CXD1217Q
IC916
CXD1253R
F9150
F9140
CN914
IC910
MSM6524
IC911
IC914
CXA1391R
IC917
CXD1253R
IC912
CXA1392R
IC913
CXL1508N

1 2 3 4 5 6 7 8 9 10 11 12

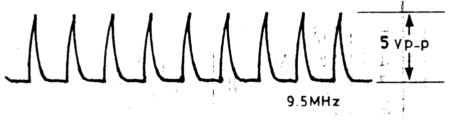
CA-1 BOARD(CAMERA)



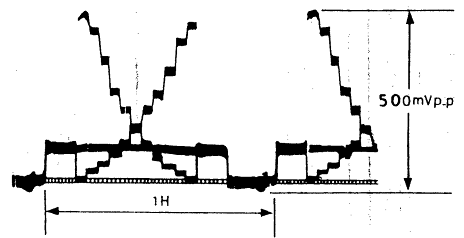
IC 917 ⑰ IRIS OUT



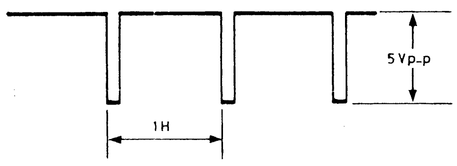
CN 912 ⑧ CAM C



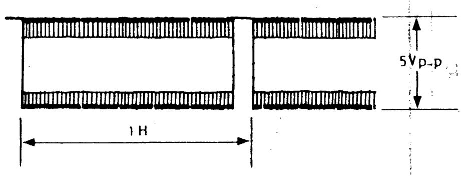
IC 919 ⑬ PG



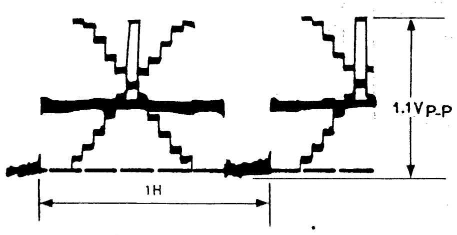
IC 917 ㉔ DET OUT



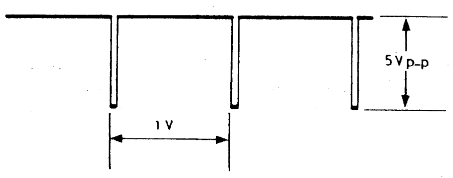
IC 915 ⑥ HD



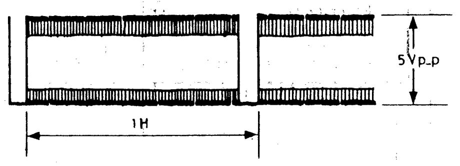
IC 919 ⑰ H1



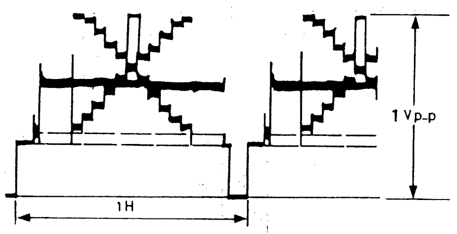
IC 914 ⑤ YH-OUT 2



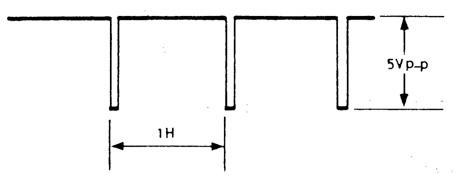
IC 915 ⑩ VD



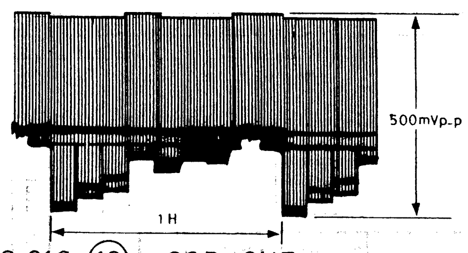
IC 919 ⑱ H2



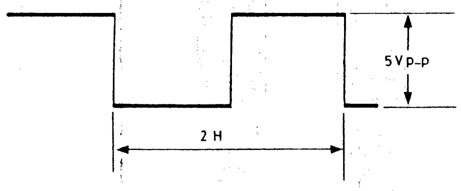
CN 912 ⑤ CAM Y



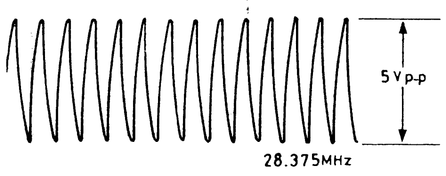
IC 915 ② SYNC



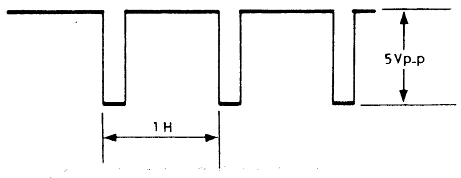
IC 919 ⑩ CCD OUT



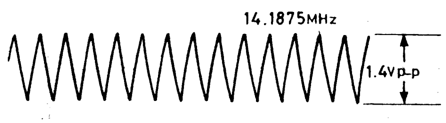
IC 916 (53) ID



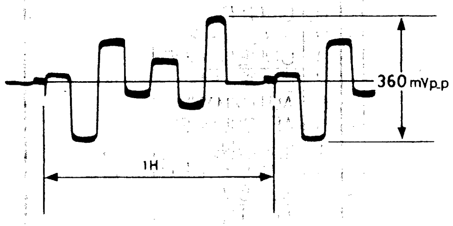
X9150 ③ CLK



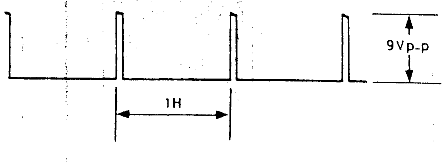
IC 915 ④ BLK



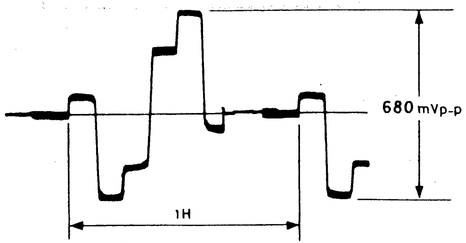
IC 916 (57) CL



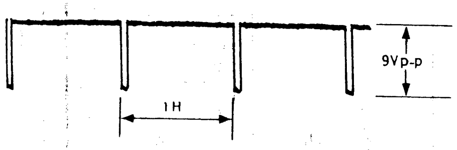
IC 912 ㊼ B-Y



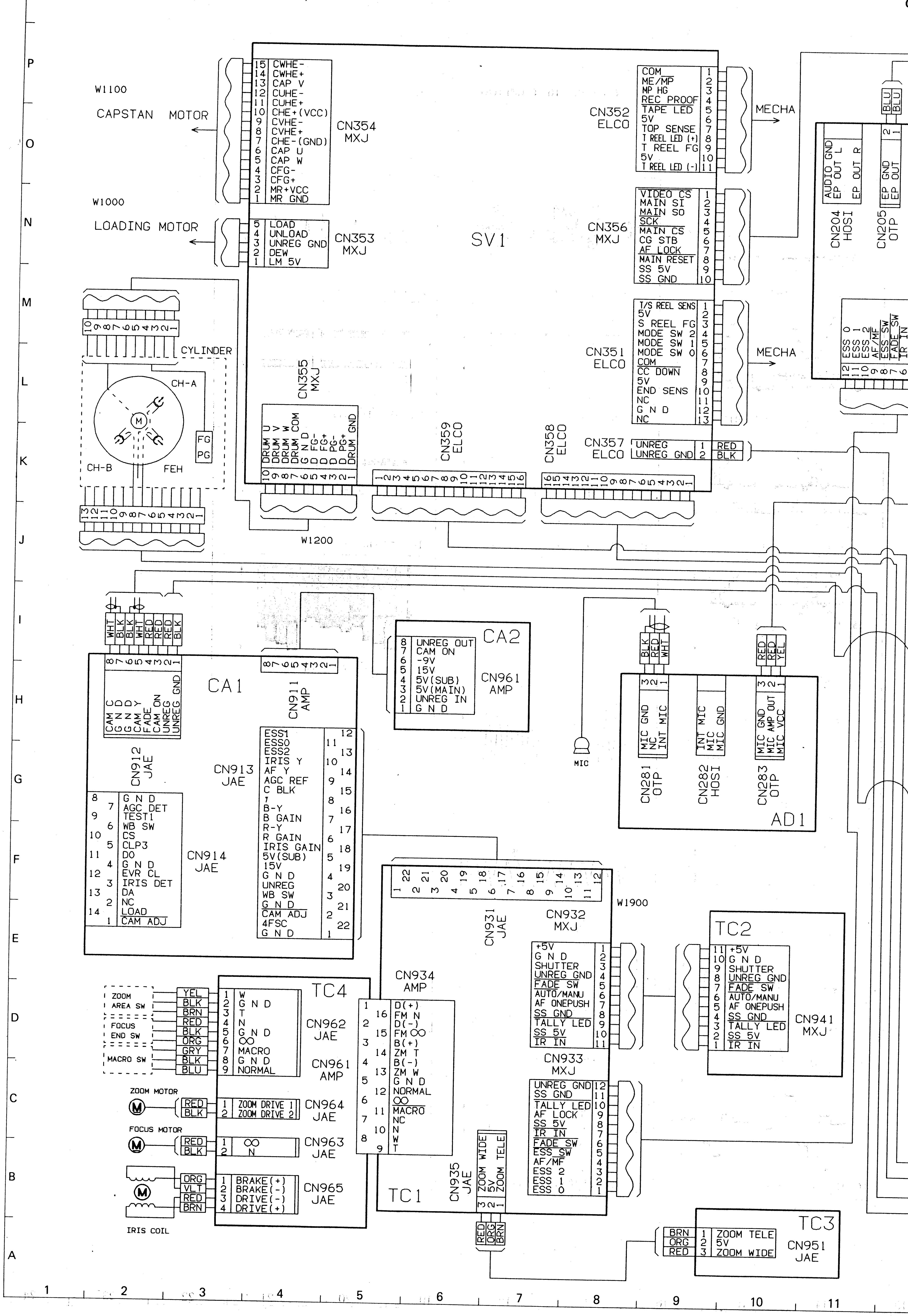
IC 919 ④③ V3,V4

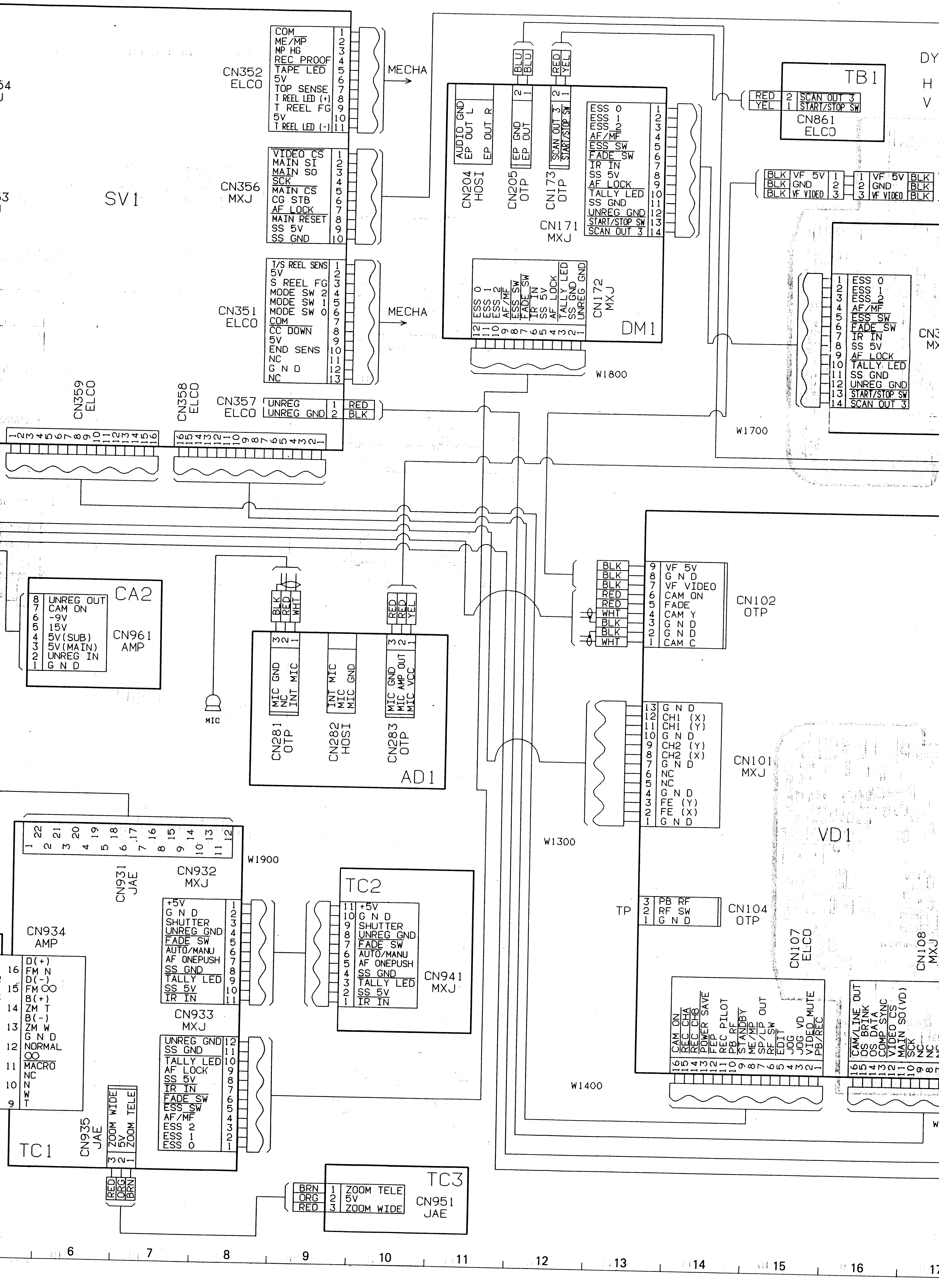


IC 912 ① R-Y

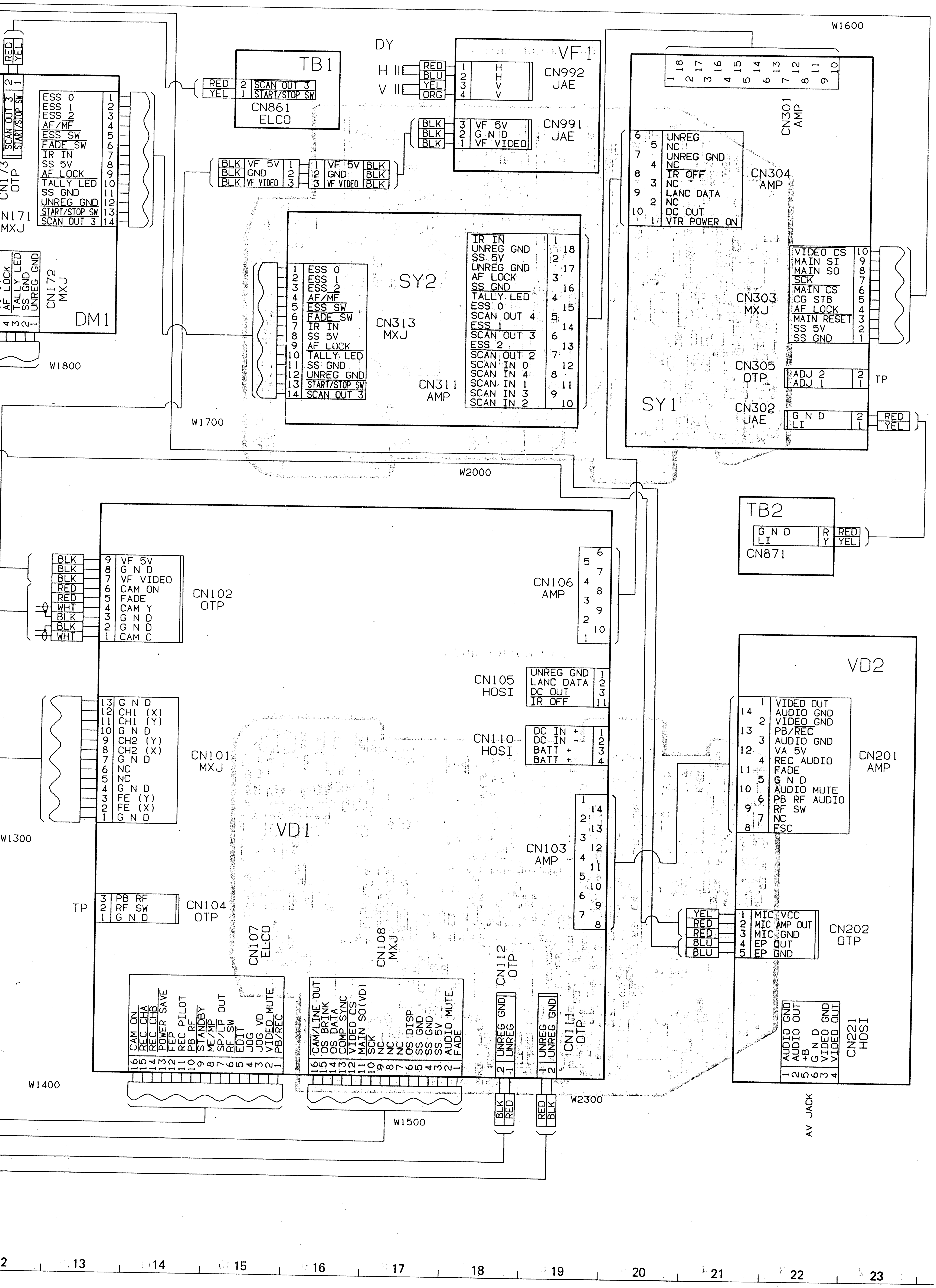


IC 919 ⑤⑥ V2,V1


P
O
N
M
L
K
J
I
H
G
F
E
D
C
B
A
W1100
CAPSTAN MOTOR
W1000
LOADING MOTOR
CN354 MXJ
15 CWHE-
14 CWHE+
13 CAP V
12 CUHE-
11 CUHE+
10 CHE+(VCC)
9 CVHE-
8 CVHE+
7 CHE-(GND)
6 CAP U
5 CAP W
4 CFG-
3 CFG+
2 MR+VCC
1 MR GND
CN353 MXJ
5 LOAD
4 UNLOAD
3 UNREG GND
2 DEW
1 LM 5V
SV1
CN352 ELCO
COM 1
ME/MP 2
MP HG 3
REC PROOF 4
TAPE LED 5
5V 6
TOP SENSE 7
T REEL LED (+) 8
T REEL FG 9
5V 10
T REEL LED (-) 11
MECHA
CN356 MXJ
VIDEO CS 1
MAIN SI 2
MAIN SO 3
SCK 4
MAIN CS 5
CG STB 6
AF LOCK 7
MAIN RESET 8
SS 5V 9
SS GND 10
CN351 ELCO
T/S REEL SENS 1
5V 2
S REEL FG 3
MODE SW 2 4
MODE SW 1 5
MODE SW 0 6
COM 7
CC DOWN 8
5V 9
END SENS 10
NC 11
G N D 12
NC 13
MECHA
CN357 ELCO
UNREG 1 RED
UNREG GND 2 BLK
CN355 MXJ
10 DRUM U
9 DRUM V
8 DRUM W
7 DRUM COM
6 G N D
5 D FG-
4 D FG+
3 D PG-
2 D PG+
1 DRUM GND
CN359 ELCO
CN358 ELCO
CYLINDER
CH-A
CH-B
FEH
FG
PG
M
W1200
AUDIO GND
EP OUT L
EP OUT R
CN204 HOSI
EP GND
EP OUT
CN205 OTP
BLU
BLU
2
1
12 ESS 0
11 ESS 1
10 ESS 2
9 AF/MF
8 ESS SW
7 FADE SW
6 IR IN
CA1
WHT
BLK
BLK
WHT
RED
RED
RED
BLK
CN912 JAE
8 CAM G N D
7 G N D
6 CAM Y
5 FADE
4 CAM ON
3 UNREG
2 UNREG GND
CN911 AMP
CN913 JAE
ESS1 12
ESS0 11
ESS2 13
IRIS Y 10
AF Y 14
AGC REF 9
C BLK 15
7 8
B-Y 16
B GAIN 7
R-Y 17
R GAIN 6
IRIS GAIN 18
5V(SUB) 5
15V 19
G N D 4
UNREG 20
WB SW 3
G N D 21
CAM ADJ 2
4FSC 22
G N D 1
CN914 JAE
8 G N D
7 AGC DET
9 TEST1
6 WB SW
10 CS
5 CLP3
11 DO
4 G N D
12 EVR CL
3 IRIS DET
13 DA
2 NC
14 LOAD
1 CAM ADJ
CA2
CN961 AMP
8 UNREG OUT
7 CAM ON
6 -9V
5 15V
4 5V(SUB)
3 5V(MAIN)
2 UNREG IN
1 G N D
MIC
BLK
RED
WHT
RED
RED
YEL
CN281 OTP
3 MIC GND
2 NC
1 INT MIC
CN282 HOSI
INT MIC
MIC
MIC GND
CN283 OTP
3 MIC GND
2 MIC AMP OUT
1 MIC VCC
AD1
CN931 JAE
W1900
CN932 MXJ
+5V 1
G N D 2
SHUTTER 3
UNREG GND 4
FADE SW 5
AUTO/MANU 6
AF ONEPUSH 7
SS GND 8
TALLY LED 9
SS 5V 10
IR IN 11
CN933 MXJ
UNREG GND 12
SS GND 11
TALLY LED 10
AF LOCK 9
SS 5V 8
IR IN 7
FADE SW 6
ESS SW 5
AF/MF 4
ESS 2 3
ESS 1 2
ESS 0 1
CN934 AMP
1 D(+)
16 FM N
2 D(-)
15 FM ∞
3 B(+)
14 ZM T
4 B(-)
13 ZM W
5 G N D
12 NORMAL
6 ∞
11 MACRO
7 NC
10 N
8 W
9 T
TC1
CN935 JAE
3 ZOOM WIDE
2 5V
1 ZOOM TELE
RED
ORG
BRN
TC2
CN941 MXJ
11 +5V
10 G N D
9 SHUTTER
8 UNREG GND
7 FADE SW
6 AUTO/MANU
5 AF ONEPUSH
4 SS GND
3 TALLY LED
2 SS 5V
1 IR IN
TC3
CN951 JAE
BRN 1 ZOOM TELE
ORG 2 5V
RED 3 ZOOM WIDE
TC4
ZOOM AREA SW
FOCUS END SW
MACRO SW
YEL 1 W
BLK 2 G N D
BRN 3 T
RED 4 N
BLK 5 G N D
ORG 6 ∞
GRY 7 MACRO
BLK 8 G N D
BLU 9 NORMAL
CN962 JAE
CN961 AMP
ZOOM MOTOR
RED 1 ZOOM DRIVE 1
BLK 2 ZOOM DRIVE 2
CN964 JAE
FOCUS MOTOR
RED 1 ∞
BLK 2 N
CN963 JAE
IRIS COIL
ORG 1 BRAKE(+)
VLT 2 BRAKE(-)
RED 3 DRIVE(-)
BRN 4 DRIVE(+)
CN965 JAE
1
2
3
4
5
6
7
8
9
10
11


SV1
CN352 ELCO
COM
ME/MP
MP HG
REC PROOF
TAPE LED
5V
TOP SENSE
T REEL LED (+)
T REEL FG
5V
T REEL LED (-)
MECHA
CN356 MXJ
VIDEO CS
MAIN SI
MAIN SO
SCK
MAIN CS
CG STB
AF LOCK
MAIN RESET
SS 5V
SS GND
CN351 ELCO
T/S REEL SENS
5V
S REEL FG
MODE SW 2
MODE SW 1
MODE SW 0
COM
CC DOWN
5V
END SENS
NC
G N D
NC
MECHA
CN357 ELCO
UNREG
UNREG GND
RED
BLK
CN359 ELCO
CN358 ELCO
BLU
BLU
RED
YEL
DM1
CN204 HOSI
AUDIO GND
EP OUT L
EP OUT R
CN205 OTP
EP GND
EP OUT
CN173 OTP
SCAN OUT 3
START/STOP SW
CN171 MXJ
ESS 0
ESS 1
ESS 2
AF/MF
ESS SW
FADE SW
IR IN
SS 5V
AF LOCK
TALLY LED
SS GND
UNREG GND
START/STOP SW
SCAN OUT 3
CN172 MXJ
ESS 0
ESS 1
ESS 2
AF/MF
ESS SW
FADE SW
IR IN
SS 5V
AF LOCK
TALLY LED
SS GND
UNREG GND
W1800
TB1
RED
YEL
SCAN OUT 3
START/STOP SW
CN861 ELCO
DY
H
V
BLK
BLK
BLK
VF 5V
GND
VF VIDEO
W1700
ESS 0
ESS 1
ESS 2
AF/MF
ESS SW
FADE SW
IR IN
SS 5V
AF LOCK
TALLY LED
SS GND
UNREG GND
START/STOP SW
SCAN OUT 3
CN3
MX
CA2
CN961 AMP
UNREG OUT
CAM ON
-9V
15V
5V(SUB)
5V(MAIN)
UNREG IN
G N D
MIC
AD1
BLK
RED
WHT
CN281 OTP
MIC GND
NC
INT MIC
CN282 HOSI
INT MIC
MIC
MIC GND
RED
RED
YEL
CN283 OTP
MIC GND
MIC AMP OUT
MIC VCC
VD1
CN102 OTP
BLK
BLK
BLK
RED
RED
WHT
BLK
BLK
WHT
VF 5V
G N D
VF VIDEO
CAM ON
FADE
CAM Y
G N D
G N D
CAM C
CN101 MXJ
G N D
CH1 (X)
CH1 (Y)
G N D
CH2 (Y)
CH2 (X)
G N D
NC
NC
G N D
FE (Y)
FE (X)
G N D
W1300
TP
CN104 OTP
PB RF
RF SW
G N D
CN107 ELCO
CAM ON
REC CHA
REC CHB
POWER SAVE
FEP
REC PILOT
PB RF
STANDBY
ME/MP
SP/LP OUT
RF SW
EDIT
JOG
JOG VD
VIDEO MUTE
PB/REC
CN108 MXJ
CAM/LINE OUT
OS BRINK
OS DATA
COMP SYNC
VIDEO CS
MAIN SO(VD)
SCK
NC
NC
W1400
W
W1900
CN931 JAE
CN932 MXJ
+5V
G N D
SHUTTER
UNREG GND
FADE SW
AUTO/MANU
AF ONEPUSH
SS GND
TALLY LED
SS 5V
IR IN
CN933 MXJ
UNREG GND
SS GND
TALLY LED
AF LOCK
SS 5V
IR IN
FADE SW
ESS SW
AF/MF
ESS 2
ESS 1
ESS 0
TC2
CN941 MXJ
+5V
G N D
SHUTTER
UNREG GND
FADE SW
AUTO/MANU
AF ONEPUSH
SS GND
TALLY LED
SS 5V
IR IN
CN934 AMP
D(+)
FM N
D(-)
FM ∞
B(+)
ZM T
B(-)
ZM W
G N D
NORMAL
∞
MACRO
NC
N
W
T
TC1
CN935 JAE
ZOOM WIDE
5V
ZOOM TELE
RED
ORG
BRN
TC3
CN951 JAE
BRN
ORG
RED
ZOOM TELE
5V
ZOOM WIDE
6
7
8
9
10
11
12
13
14
15
16
17

VERALL WIRING


W1600
DY
H
V
RED
BLU
YEL
ORG
VF 1
1 H
2 H
3 V
4 V
CN992
JAE
BLK
BLK
BLK
3 VF 5V
2 G N D
1 VF VIDEO
CN991
JAE
TB1
RED 2 SCAN OUT 3
YEL 1 START/STOP SW
CN861
ELCO
BLK VF 5V 1
BLK GND 2
BLK VF VIDEO 3
1 VF 5V BLK
2 GND BLK
3 VF VIDEO BLK
RED
YEL
2 SCAN OUT 3
1 START/STOP SW
CN173
OTP
1 ESS 0
2 ESS 1
3 ESS 2
4 AF/MF
5 ESS SW
6 FADE SW
7 IR IN
8 SS 5V
9 AF LOCK
10 TALLY LED
11 SS GND
12 UNREG GND
13 START/STOP SW
14 SCAN OUT 3
CN171
MXJ
4 AF LOCK
3 TALLY LED
2 SS GND
1 UNREG GND
CN172
MXJ
DM1
W1800
SY2
CN313
MXJ
1 ESS 0
2 ESS 1
3 ESS 2
4 AF/MF
5 ESS SW
6 FADE SW
7 IR IN
8 SS 5V
9 AF LOCK
10 TALLY LED
11 SS GND
12 UNREG GND
13 START/STOP SW
14 SCAN OUT 3
CN311
AMP
IR IN 1
UNREG GND 18
SS 5V 2
UNREG GND 17
AF LOCK 3
SS GND 16
TALLY LED 4
ESS 0 15
SCAN OUT 4 5
ESS 1 14
SCAN OUT 3 6
ESS 2 13
SCAN OUT 2 7
SCAN IN 0 12
SCAN IN 4 8
SCAN IN 1 11
SCAN IN 3 9
SCAN IN 2 10
W1700
W2000
SY1
CN301
AMP
1 18 2 17 3 16 4 15 5 14 6 13 7 12 8 11 9 10
6 5 UNREG
NC
7 UNREG GND
4 NC
8 IR OFF
3 NC
9 LANC DATA
2 NC
10 DC OUT
1 VTR POWER ON
CN304
AMP
VIDEO CS 10
MAIN SI 9
MAIN SO 8
SCK 7
MAIN CS 6
CG STB 5
AF LOCK 4
MAIN RESET 3
SS 5V 2
SS GND 1
CN303
MXJ
CN305
OTP
ADJ 2 2
ADJ 1 1
TP
CN302
JAE
G N D 2
LI 1
RED
YEL
TB2
G N D R RED
LI Y YEL
CN871
VD1
BLK 9 VF 5V
BLK 8 G N D
BLK 7 VF VIDEO
RED 6 CAM ON
RED 5 FADE
WHT 4 CAM Y
BLK 3 G N D
BLK 2 G N D
WHT 1 CAM C
CN102
OTP
13 G N D
12 CH1 (X)
11 CH1 (Y)
10 G N D
9 CH2 (Y)
8 CH2 (X)
7 G N D
6 NC
5 NC
4 G N D
3 FE (Y)
2 FE (X)
1 G N D
CN101
MXJ
W1300
TP
3 PB RF
2 RF SW
1 G N D
CN104
OTP
CN106
AMP
6 5 7 4 8 3 9 2 10 1
CN105
HOSI
UNREG GND 1
LANC DATA 2
DC OUT 3
IR OFF 11
CN110
HOSI
DC IN + 1
DC IN − 2
BATT + 3
BATT + 4
CN103
AMP
1 14 2 13 3 12 4 11 5 10 6 9 7 8
CN107
ELCO
16 CAM ON
15 REC CHA
14 REC CHB
13 POWER SAVE
12 FEP
11 REC PILOT
10 PB RF
9 STANDBY
8 ME/MP
7 SP/LP OUT
6 RF SW
5 EDIT
4 JOG
3 JOG VD
2 VIDEO MUTE
1 PB/REC
W1400
CN108
MXJ
16 CAM/LINE OUT
15 OS BRINK
14 OS DATA
13 COMP SYNC
12 VIDEO CS
11 MAIN SO(VD)
10 SCK
9 NC
8 NC
7 NC
6 OS DISP
5 OS GND
4 SS GND
3 SS 5V
2 AUDIO MUTE
1 FADE
W1500
CN112
OTP
2 UNREG GND
1 UNREG
BLK
RED
CN111
OTP
1 UNREG
2 UNREG GND
RED
BLK
W2300
VD2
14 1 VIDEO OUT
AUDIO GND
2 VIDEO GND
13 PB/REC
3 AUDIO GND
12 VA 5V
4 REC AUDIO
11 FADE
5 G N D
10 AUDIO MUTE
6 PB RF AUDIO
9 RF SW
7 NC
8 FSC
CN201
AMP
YEL 1 MIC VCC
RED 2 MIC AMP OUT
RED 3 MIC GND
BLU 4 EP OUT
BLU 5 EP GND
CN202
OTP
1 AUDIO GND
2 AUDIO OUT
5 +B
6 G N D
3 VIDEO GND
4 VIDEO OUT
CN221
HOSI
AV JACK
12
13
14
15
16
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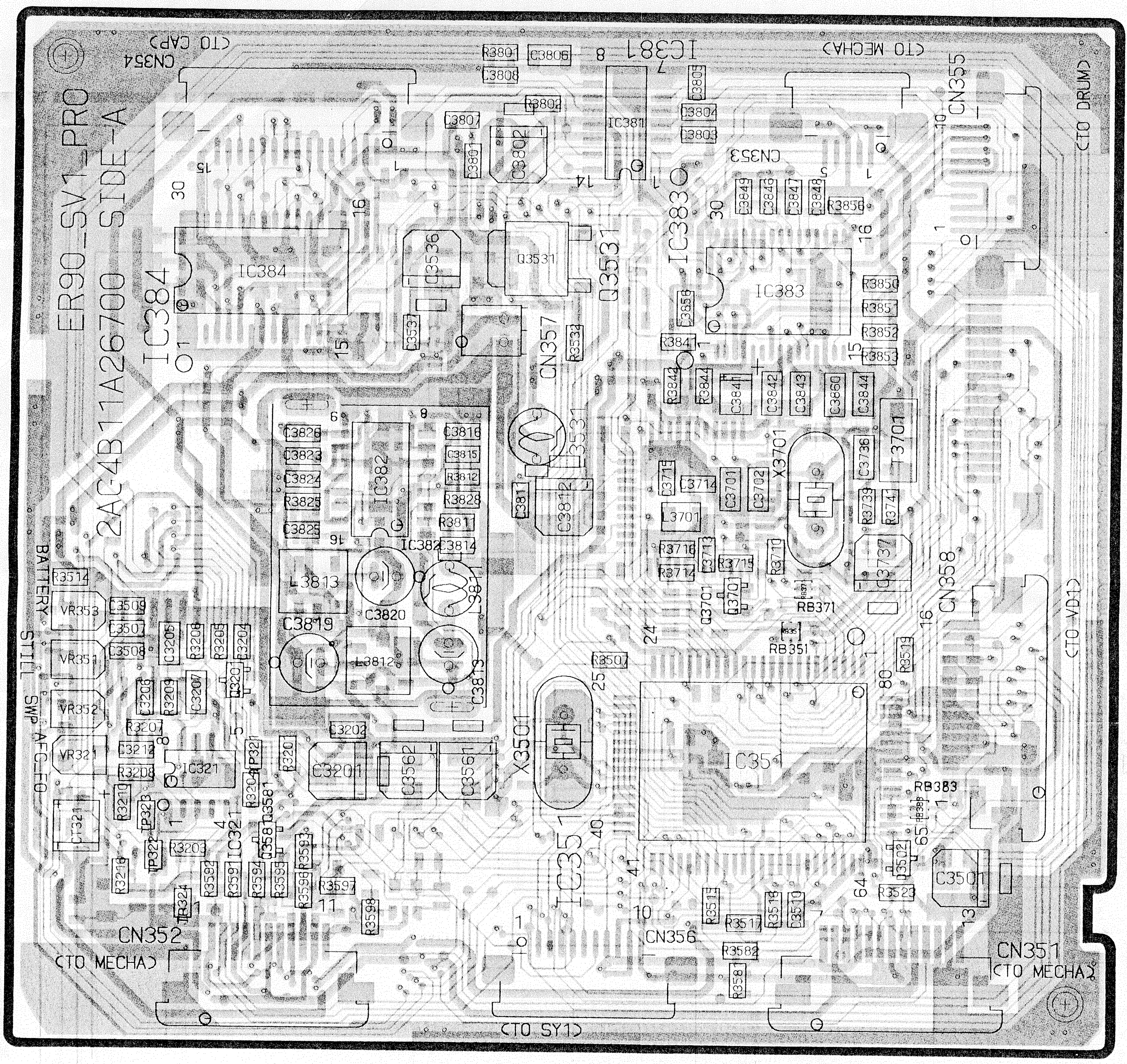
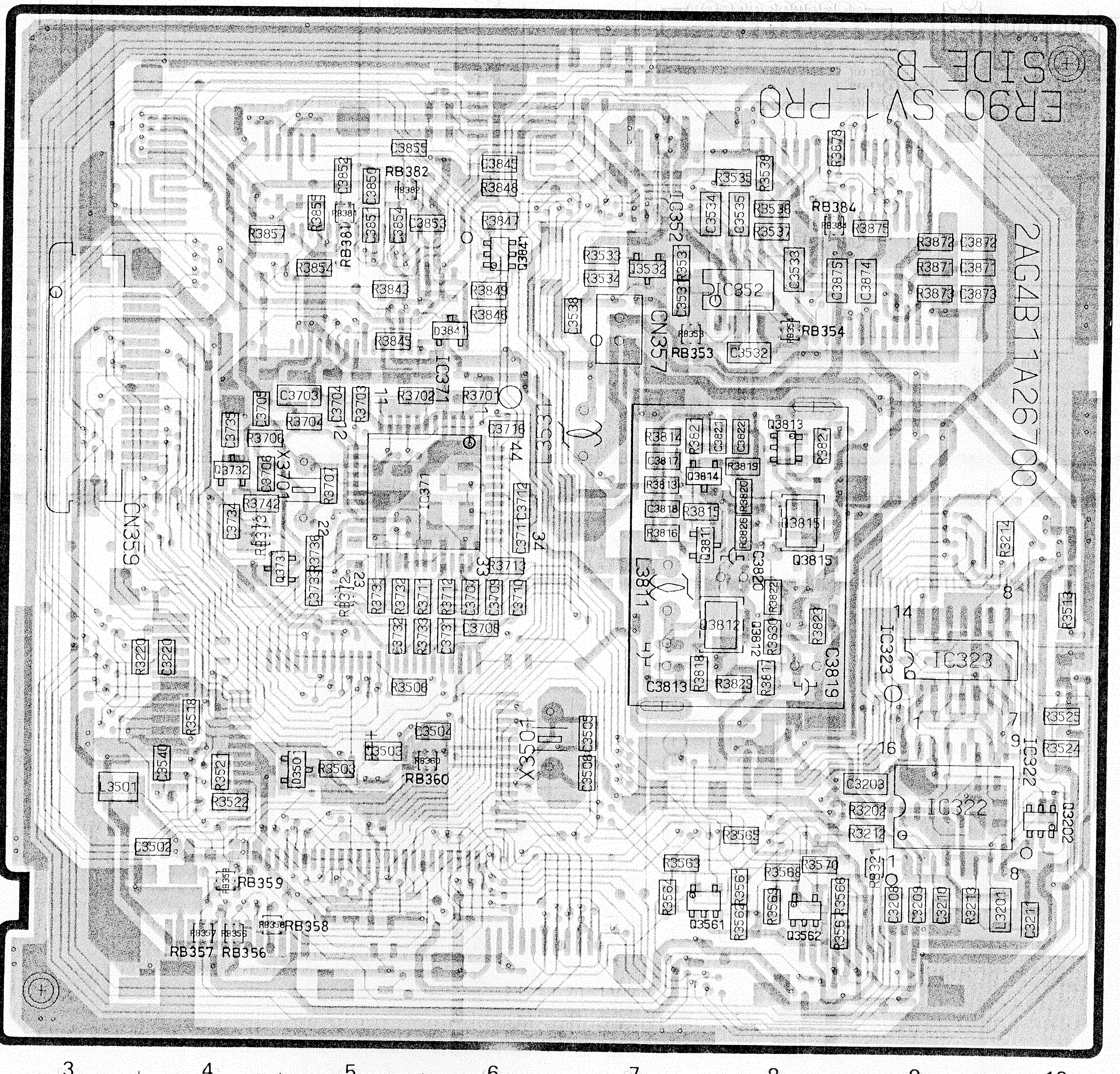
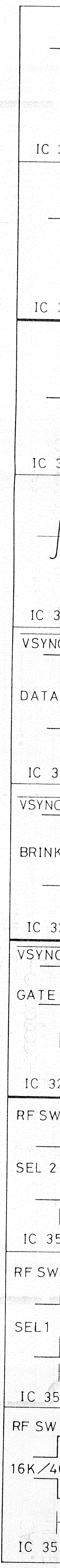
22
23

SV-1 BOARD SIDE A


ER90_SV1_PRO
SIDE-A
2AG4B11A26700
<TO CAP>
CN354
<TO MECHA>
CN355
<TO DRUM>
IC381
IC384
IC383
CN353
Q3531
Q3536
CN357
IC382
L3813
L3812
X3701
L3701
CN358
<TO VD1>
IC354
X3501
IC351
CN356
CN352
<TO MECHA>
CN351
<TO MECHA>
<TO SY1>
BATTERY
STILL
SWP
AFC FO
VR353
VR351
VR352
VR321
IC321
C3201
C3501
RB371
RB351
RB383

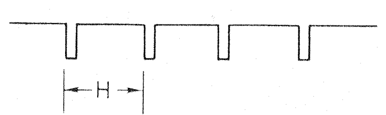
SV-1 BOARD SIDE B


ER90_SV1_PRO
SIDE-B
2AG4B11A26700
RB382
RB381
RB384
IC352
RB354
RB353
CN357
IC371
X3701
L3531
L3811
Q3813
Q3815
IC323
IC322
CN359
L3501
X3501
RB360
RB359
RB358
RB357
RB356
Q3561
Q3562
L3201

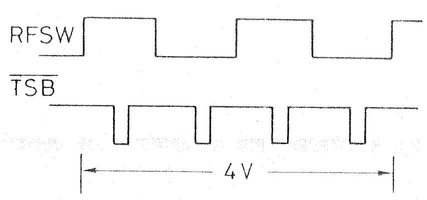

IC 3
IC 3
IC 3
IC 3
VSYNC
DATA
IC 3
VSYNC
BRINK
IC 3
VSYNC
GATE
IC 3
RF SW
SEL 2
IC 35
RF SW
SEL 1
IC 35
RF SW
16K/4
IC 35

2 3 4 5 6 7 8 9 10 11 12 13

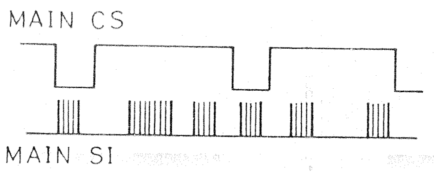
SV-1 BOARD(SERVO)



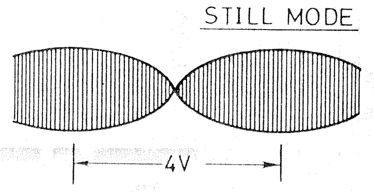
IC 321 ② $\overline{\text{HSYNC}}$


RFSW
$\overline{\text{TSB}}$
4V

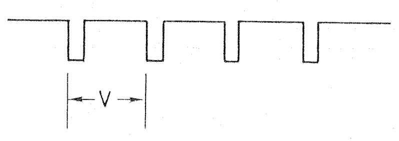
IC 351 ④ $\overline{\text{TSB}}$


MAIN CS
MAIN SI

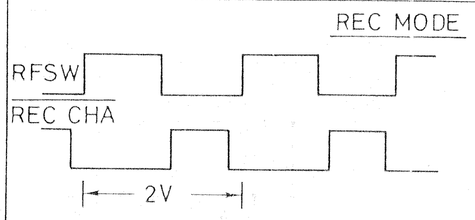
IC 351 ㊲ MAIN SI (IN)


STILL MODE
4V

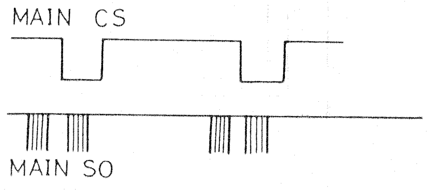
IC 371 ㉛ 3FH



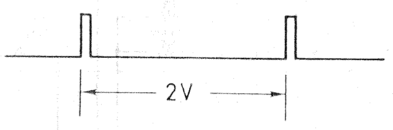
IC 321 ④ $\overline{\text{VSYNC}}$


REC MODE
RFSW
$\overline{\text{REC CHA}}$
2V

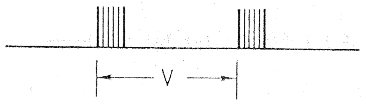
IC 351 ⑧ $\overline{\text{REC CHA}}$


MAIN CS
MAIN SO

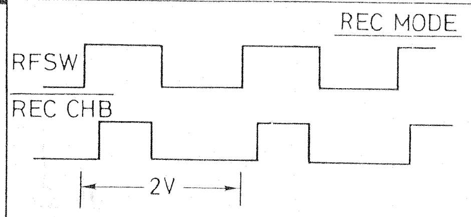
IC 351 ㊳ MAIN SO



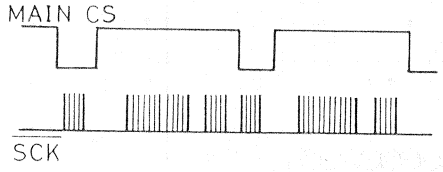
IC 381 ⑨ DPG



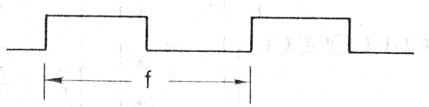
IC 322 ③ CGSTB (IN)


REC MODE
RFSW
$\overline{\text{REC CHB}}$
2V

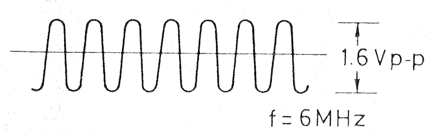
IC 351 ⑨ $\overline{\text{REC CHB}}$


MAIN CS
$\overline{\text{SCK}}$

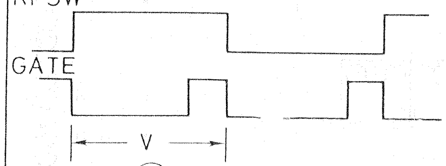
IC 351 ㊴ $\overline{\text{SCK}}$


f
(12pulse/2V)
f=300Hz (PAL)
f=360Hz (NTSC)

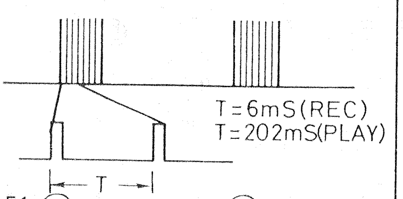
IC 381 ⑩ DFG


1.6Vp-p
f=6MHz

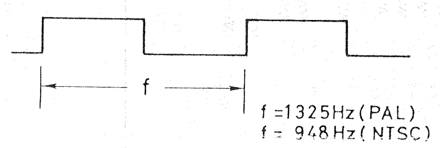
IC 322 ⑥⑦ OSC



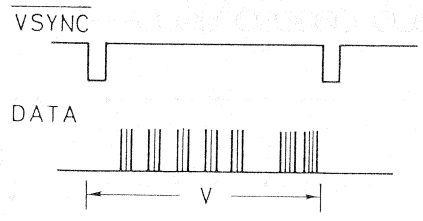
IC 351 ⑰ OS REC GATE


T=6mS(REC)
T=202mS(PLAY)
T

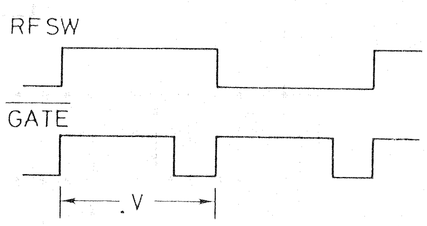
IC 351 ㊻ T REEL(IN) ㊼ S REEL(IN)


f
f=1325Hz(PAL)
f=948Hz(NTSC)

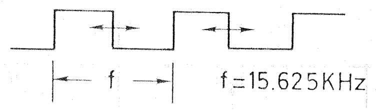
IC 381 ⑫ CAP FG


$\overline{\text{VSYNC}}$
DATA
V

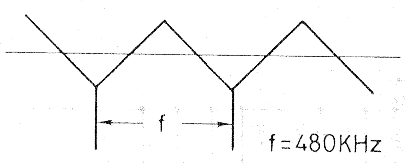
IC 322 ⑨ DATA



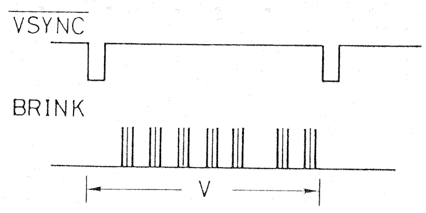
IC 351 ⑱ $\overline{\text{OS REC GATE}}$


f
f=15.625KHz

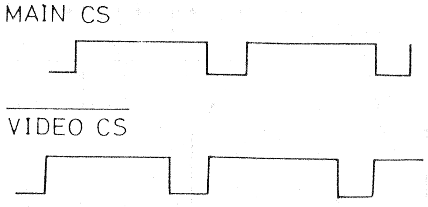
(67) CAP PWM
IC 351 (68) DRUM PWM



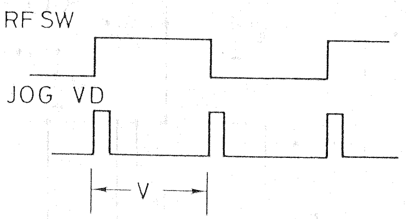
IC 382 ① OSC


$\overline{\text{VSYNC}}$
BRINK
V

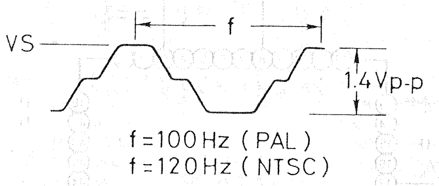
IC 322 ⑩ BRINK


MAIN CS
VIDEO CS

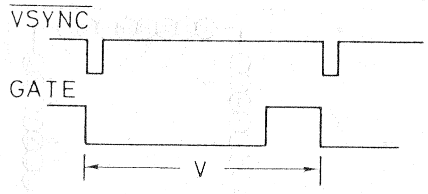
IC 351 ㉖ $\overline{\text{VIDEO CS}}$


RF SW
JOG VD
V

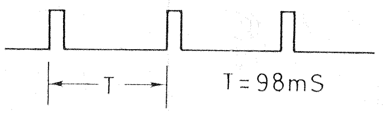
IC 351 (79) JOG VD


VS
f
1.4Vp-p
f=100Hz (PAL)
f=120Hz (NTSC)

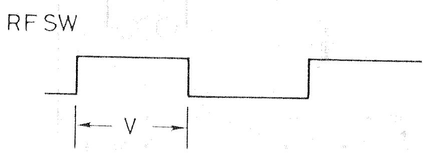
IC 383 ⑯⑱ DRUM U,V,W


$\overline{\text{VSYNC}}$
GATE
V

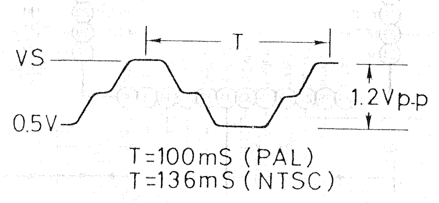
IC 323 ②⑤ OS REC GATE (IN)



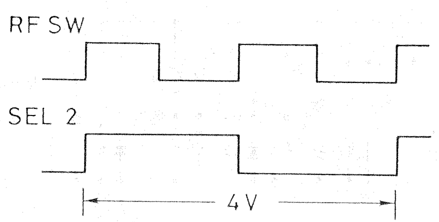
IC 351 ㉗ T/E LED



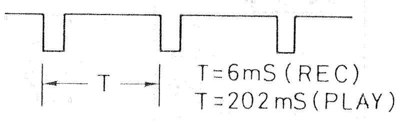
IC 351 (80) RF SW


VS
T
1.2Vp.p
0.5V
T=100mS (PAL)
T=136mS (NTSC)

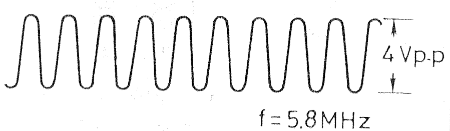
IC 384 ④⑤ ⑥ CAP U,V,W


RF SW
SEL 2
4V

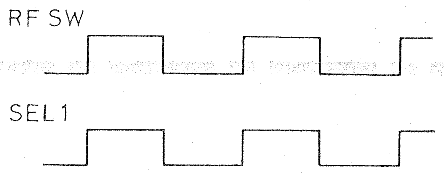
IC 351 ① SEL 2


T
T=6mS(REC)
T=202mS(PLAY)

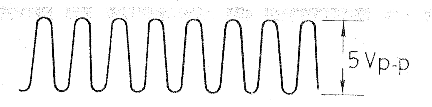
IC 351 ㉘ $\overline{\text{REEL LED}}$


4Vp.p
f=5.8MHz

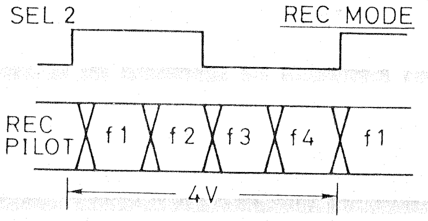
⑭ XTAL(IN)
IC 371 ⑯ EXTAL


RF SW
SEL1
4V

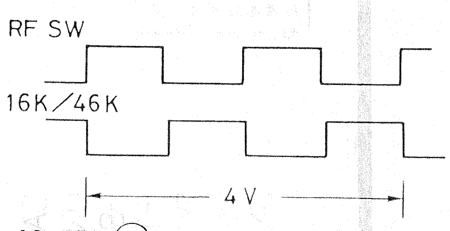
IC 351 ② SEL1



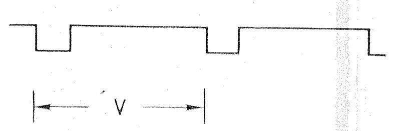
㉞ XTAL (IN)
IC 351 ㉟ EXTAL


SEL 2
REC MODE
REC PILOT
f1
f2
f3
f4
f1
4V

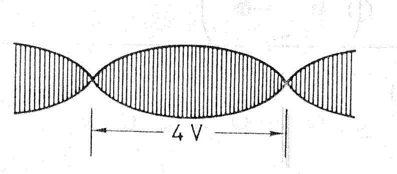
IC 371 ㉔ REC PILOT


RF SW
16K/46K
4V

IC 351 ③ 16K/46K



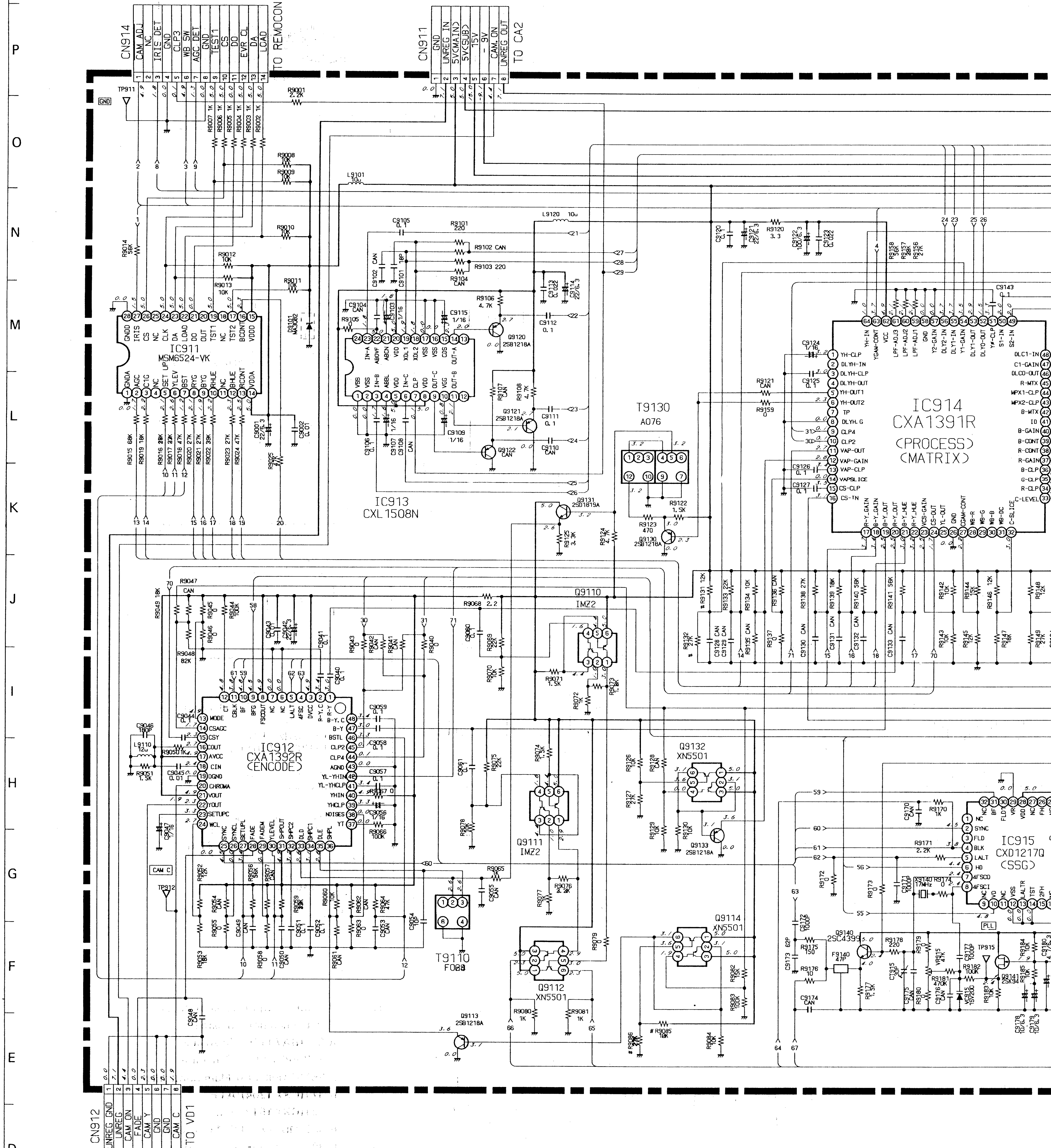
IC 351 ㊱ $\overline{\text{MAIM CS}}$ (IN)


STILL MODE
4V

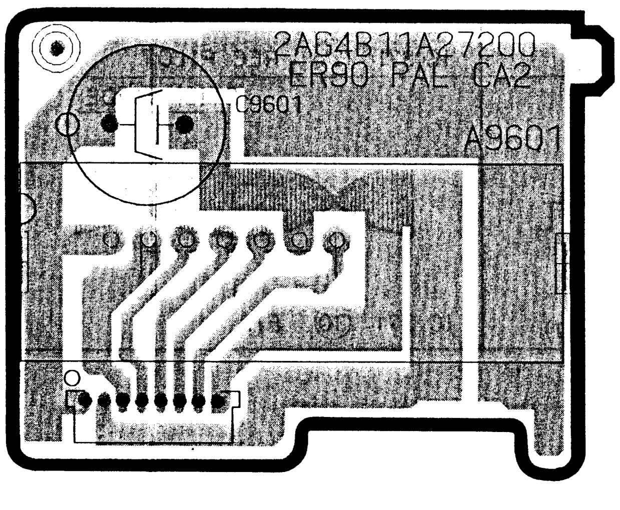
IC 371 ㉚ FH

NOTE: Waveform output signal of PLAY MODE when not indicated.

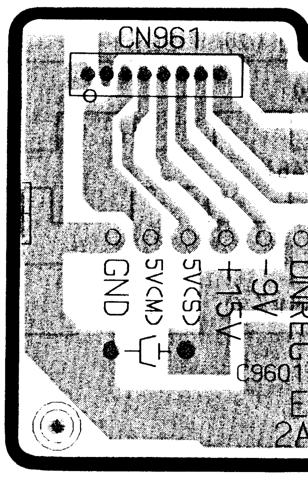
IC321(BA7046) } Character
IC322(μPD6142) } Generator
IC351(CXP80116):Main Controller
IC371(CXA1204):ATF
IC381(CXA1512):Sensor
IC382(MB3775):PWM Converter
IC383(CXA8006):Drum Driver
IC384(LB1617):Capstan Driver

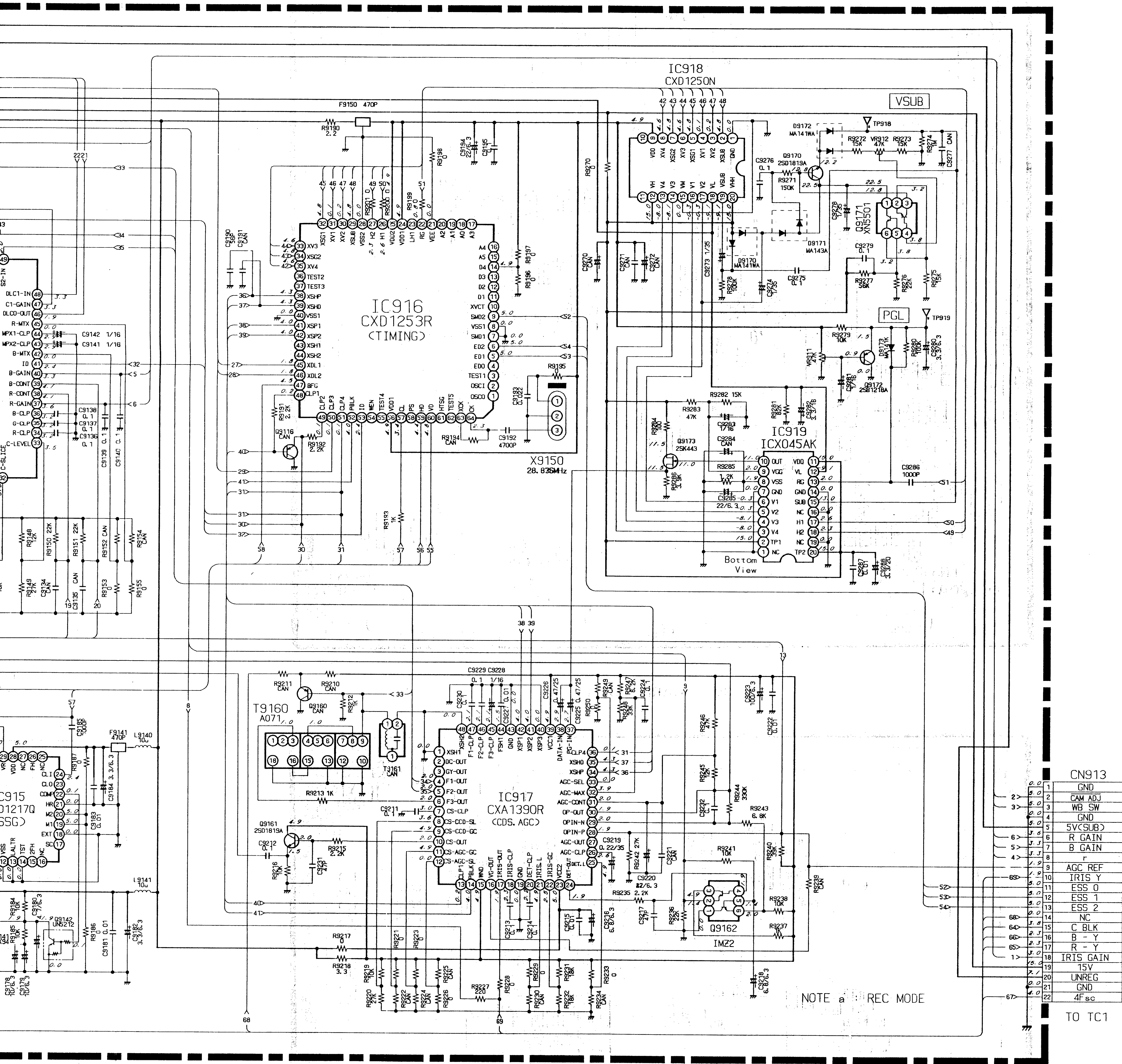

CN914
CAM ADJ
NC
IRIS DET
GND
CLP3
WB 5W
AGC DET
GND
TEST1
CS
DO
EVR CL
DA
LOAD
TO REMOCON
CN911
GND
UNREG IN
5V(MAIN)
5V(SUB)
15V
-9V
CAM. ON
UNREG OUT
TO CA2
TP911
GND
IC911
MSM6524-VK
IC913
CXL1508N
Q9120
2SB1218A
Q9121
2SB1218A
Q9122
CAN
T9130
A076
Q9131
2SD1819A
Q9130
2SB1218A
IC914
CXA1391R
(PROCESS)
(MATRIX)
Q9110
IMZ2
IC912
CXA1392R
(ENCODE)
Q9111
IMZ2
Q9132
XN5501
Q9133
2SB1218A
IC915
CXD1217Q
(SSG)
PLL
T9110
F088
Q9112
XN5501
Q9113
2SB1218A
Q9114
XN5501
Q9140
2SC4399
TP912
TP915
CAM C
CN912
UNREG GND
UNREG
CAM ON
FADE
CAM Y
GND
GND
CAM C
TO VD1
P
O
N
M
L
K
J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11

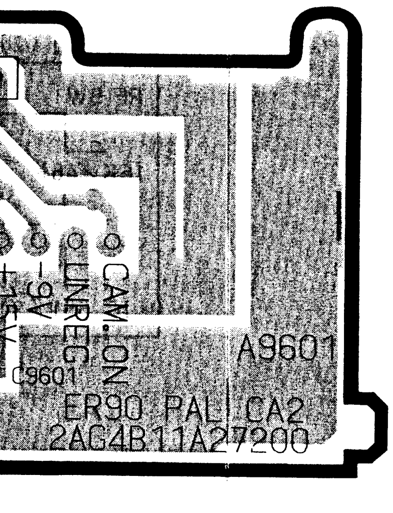
CA-2 BOARD SIDE A


2A64B11A27200
ER90 PAL CA2
A9601
C9601

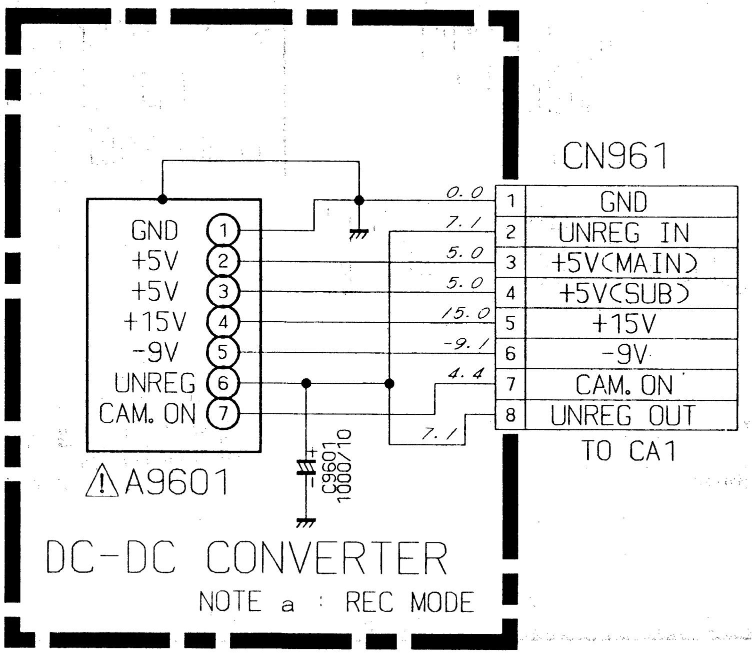
CA-2 BOARD SIDE B


CN961
GND
5V(M)
5V(S)
+15V
-9V
UNREG
C9601

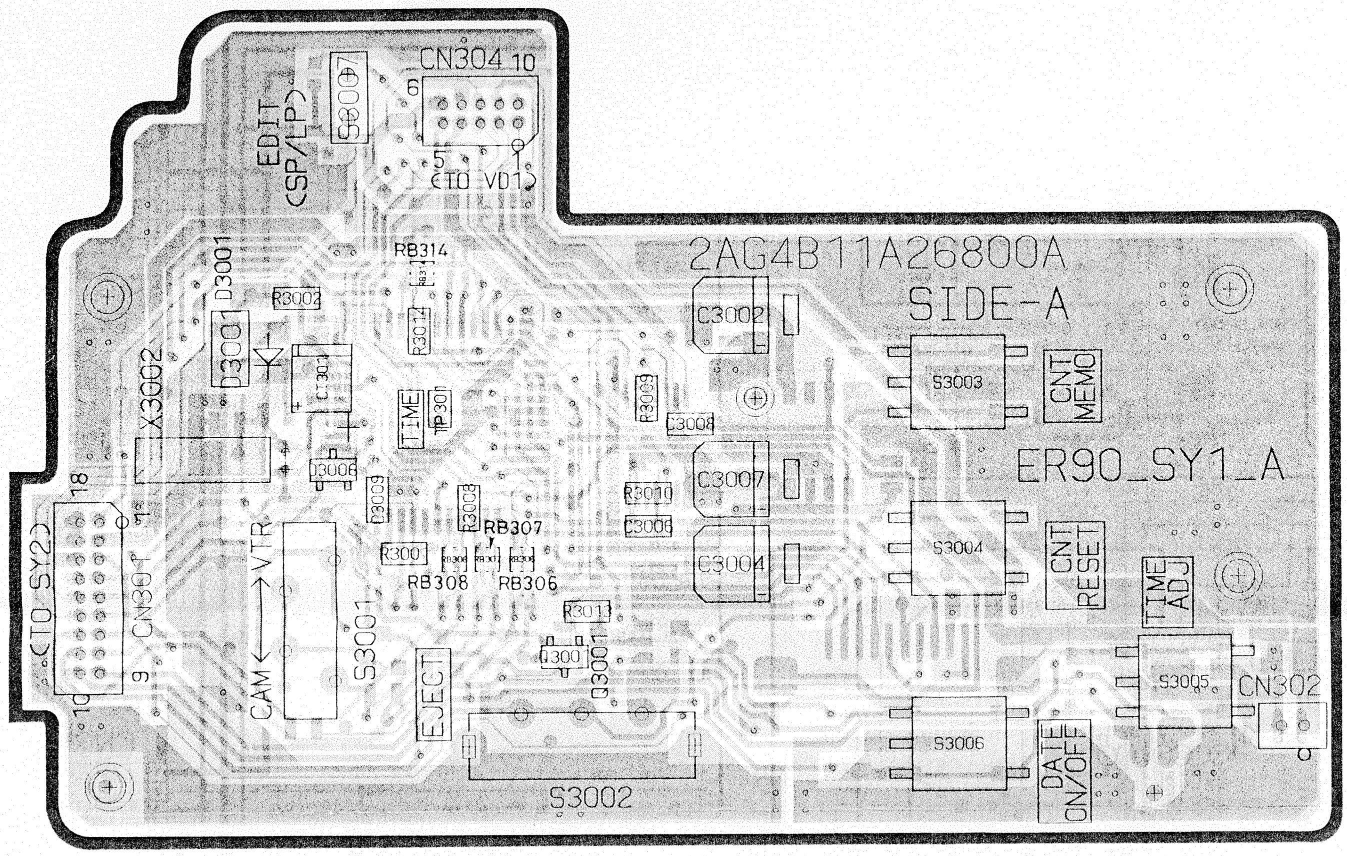

IC918
CXD1250N
VSUB
TP918
IC916
CXD1253R
(TIMING)
F9150 470P
X9150
28.636MHz
PGL
TP919
IC919
ICX045AK
Bottom View
T9160
A071
T9161
IC917
CXA1390R
(CDS, AGC)
Q9162
IMZ2
C915
(SSG)
CN913
1 GND
2 CAM ADJ
3 WB SW
4 GND
5 5V(SUB)
6 R GAIN
7 B GAIN
8 r
9 AGC REF
10 IRIS Y
11 ESS 0
12 ESS 1
13 ESS 2
14 NC
15 C BLK
16 B - Y
17 R - Y
18 IRIS GAIN
19 15V
20 UNREG
21 GND
22 4Fsc
TO TC1
NOTE a : REC MODE

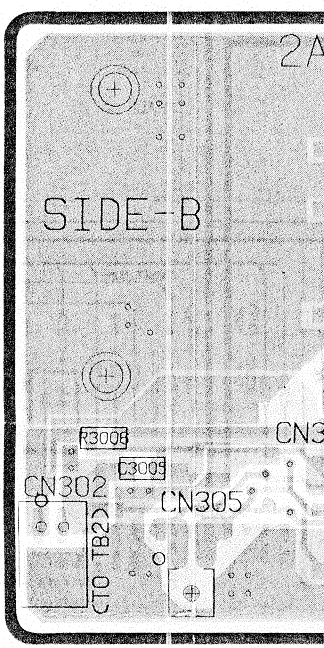

CAM.ON
UNREG
-9V
A9601
C9601
ER90 PAL CA2
2AG4B11A27200

CA-2 CIRCUIT

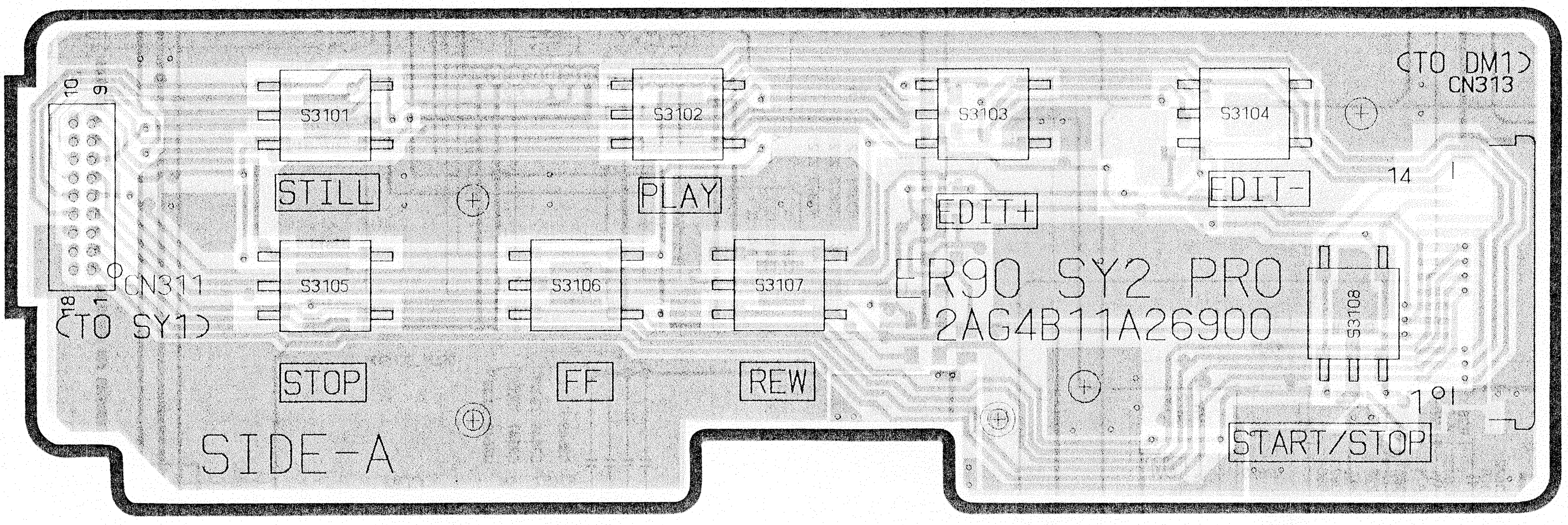

CN961
1 GND
2 UNREG IN
3 +5V(MAIN)
4 +5V(SUB)
5 +15V
6 -9V
7 CAM. ON
8 UNREG OUT
TO CA1
GND ①
+5V ②
+5V ③
+15V ④
-9V ⑤
UNREG ⑥
CAM. ON ⑦
⚠A9601
C9601 1000/10
DC-DC CONVERTER
NOTE a : REC MODE

SY-1 BOARD SIDE A

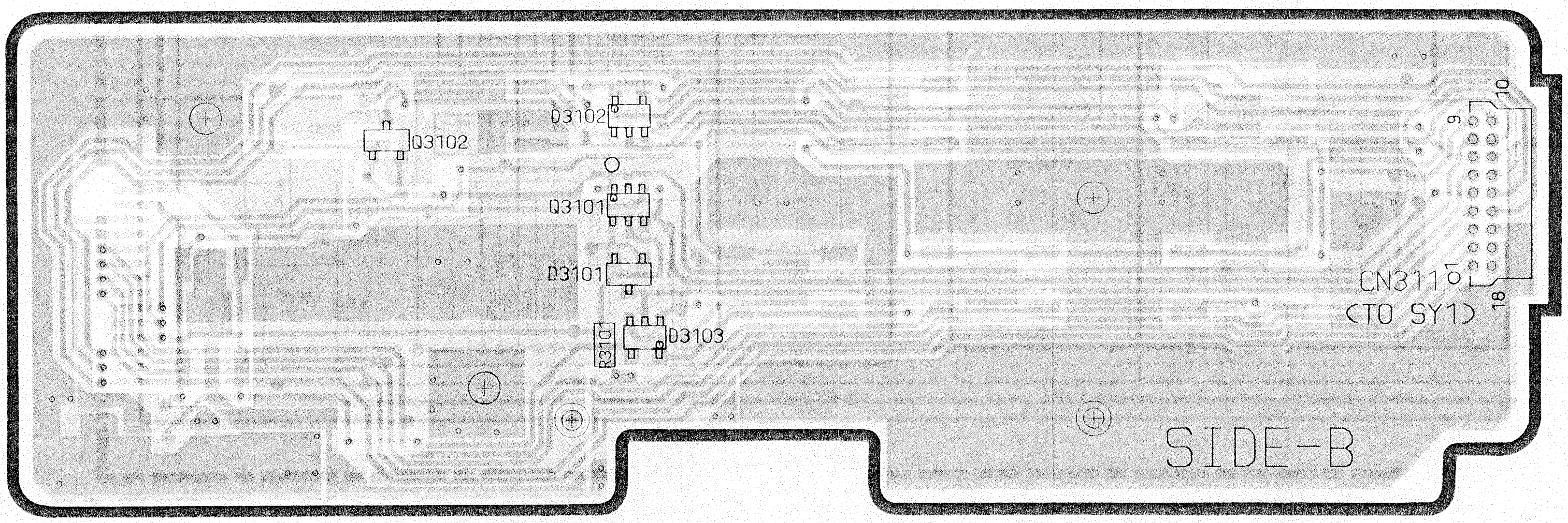

CN304
(TO VD1)
EDIT (SP/LP)
S3007
2AG4B11A26800A
SIDE-A
ER90_SY1_A
RB314
D3001
R3002
R3012
C3001
X3002
D3006
TIME
TP301
R3009
C3002
C3008
S3003
CNT MEMO
C3007
R3010
C3006
C3004
S3004
CNT RESET
TIME ADJ
(TO SY2)
CN301
R3003
R3008
RB307
R3001
RB308
RB306
R3011
Q3001
VTR
CAM
S3001
EJECT
S3002
S3005
CN302
S3006
DATE ON/OFF


SIDE-B
R3006
C3005
CN302
(TO TB2)
CN305

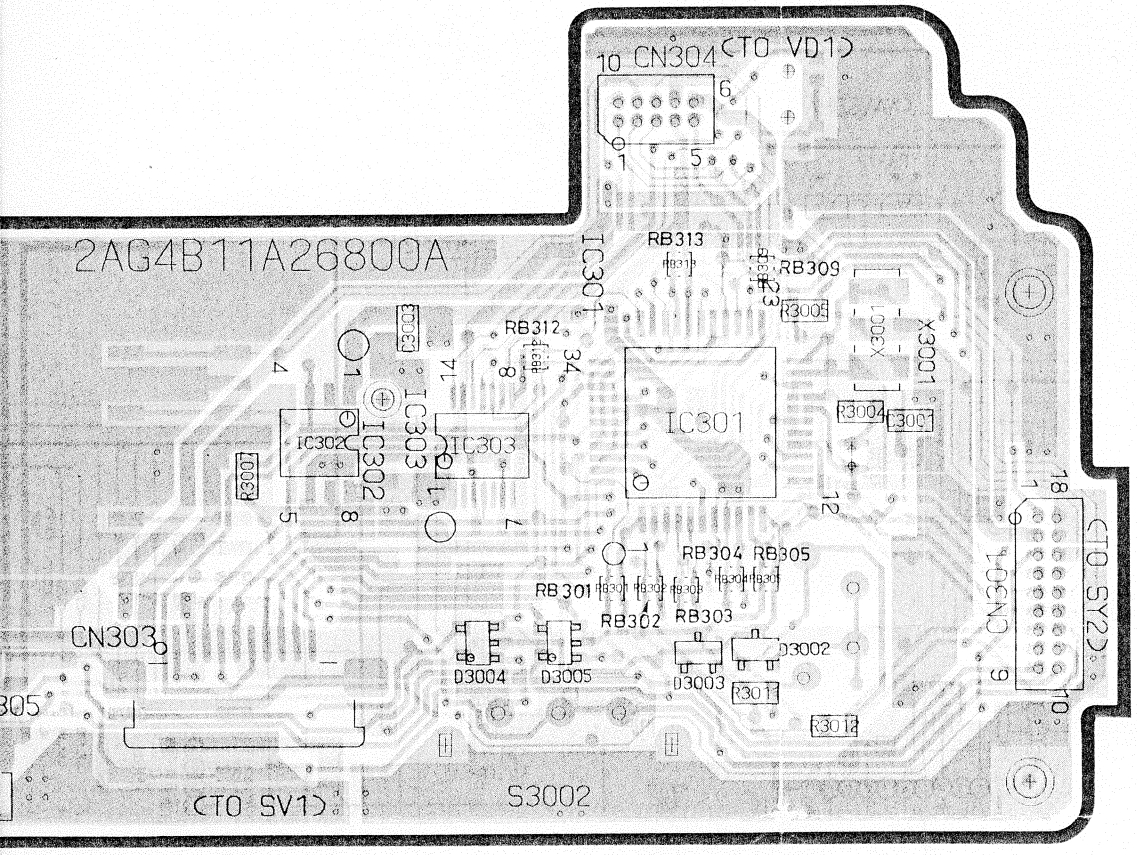
SY-2 BOARD SIDE A


(TO DM1)
CN313
S3101
S3102
S3103
S3104
STILL
PLAY
EDIT+
EDIT-
CN311
(TO SY1)
S3105
S3106
S3107
S3108
ER90 SY2 PRO
2AG4B11A26900
STOP
FF
REW
START/STOP
SIDE-A

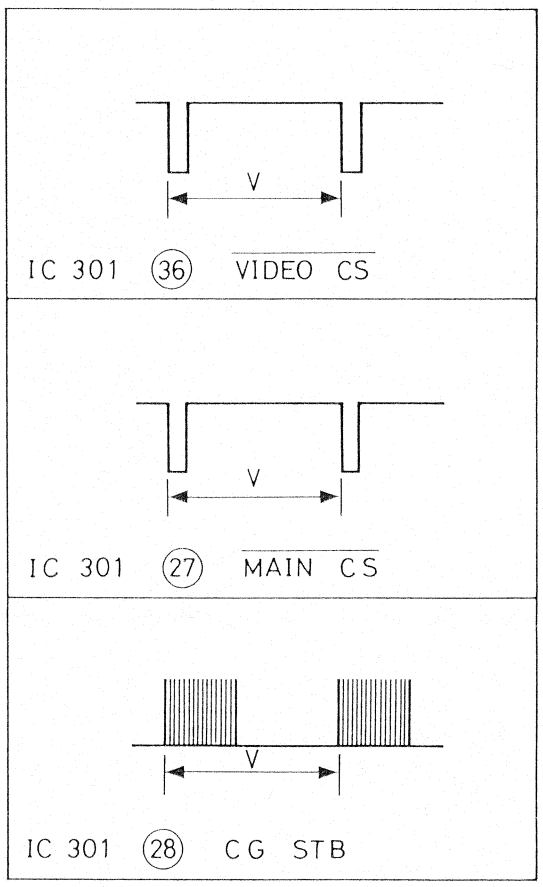
SY-2 BOARD SIDE B


Q3102
D3102
Q3101
D3101
R3101
D3103
CN311
(TO SY1)
SIDE-B

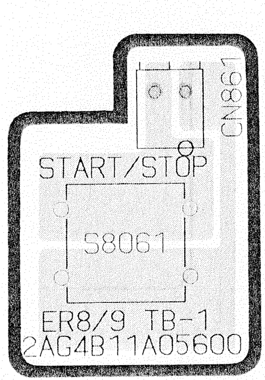
SY-1 BOARD SIDE B


10 CN304 (TO VD1)
6
1
5
2AG4B11A26800A
IC301
RB313
RB309
R3005
RB312
X3001
IC302
IC303
IC301
R3004
C3001
R3001
RB304 RB305
RB301
RB302 RB303
CN303
D3004 D3005
D3003
D3002
R3011
R3012
CN301
(TO SY2)
18
9
10
305
(TO SV1)
S3002

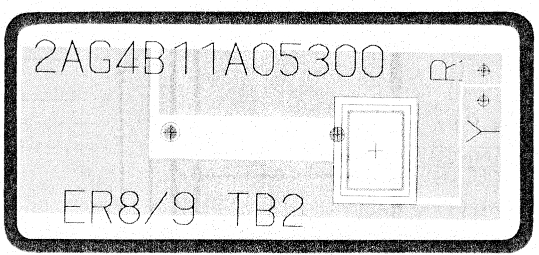
SY-1 BOARD


V
IC 301 ㊱ VIDEO CS
V
IC 301 ㉗ MAIN CS
V
IC 301 ㉘ CG STB

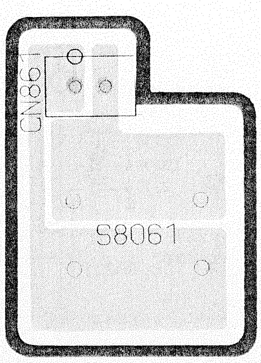
TB-1 BOARD SIDE A


CN861
START/STOP
S8061
ER8/9 TB-1
2AG4B11A05600

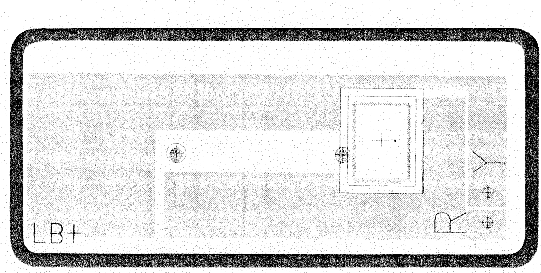
TB-2 BOARD SIDE A


2AG4B11A05300
R
Y
ER8/9 TB2

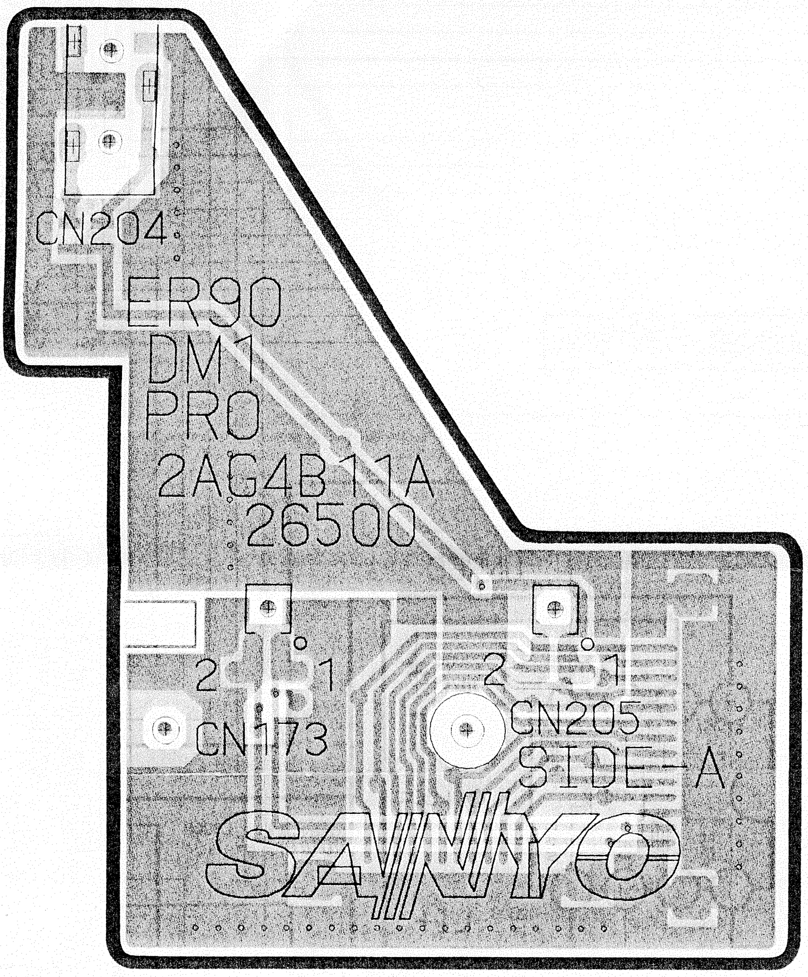
TB-1 BOARD SIDE B


CN861
S8061

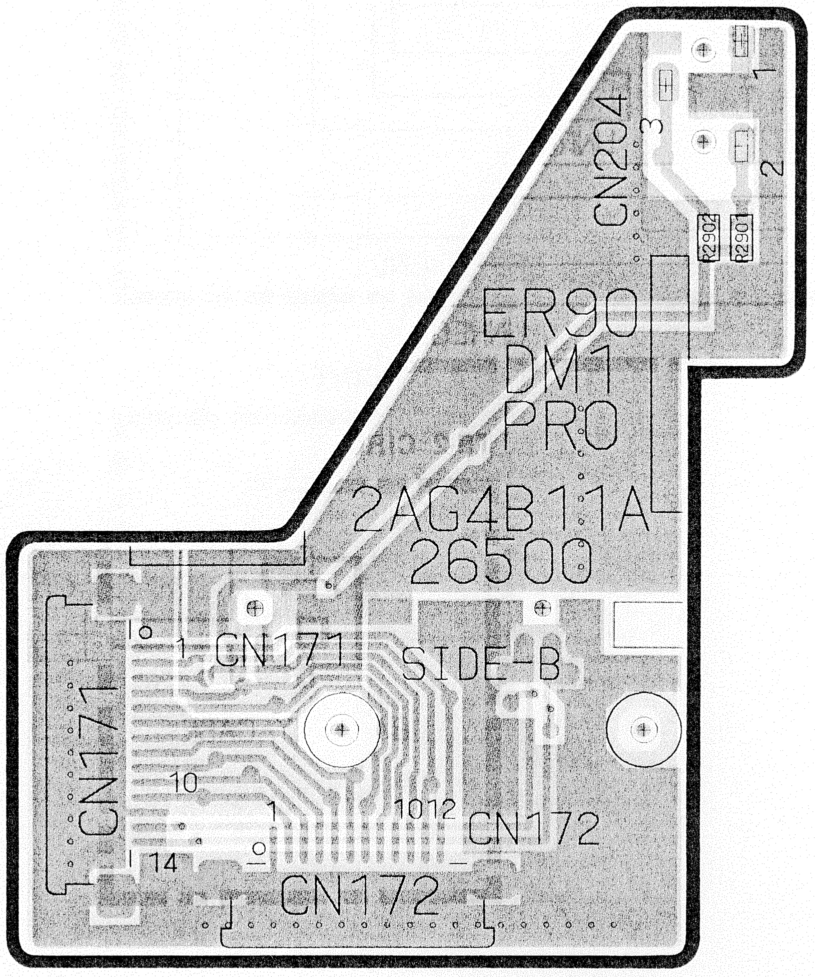
TB-2 BOARD SIDE B



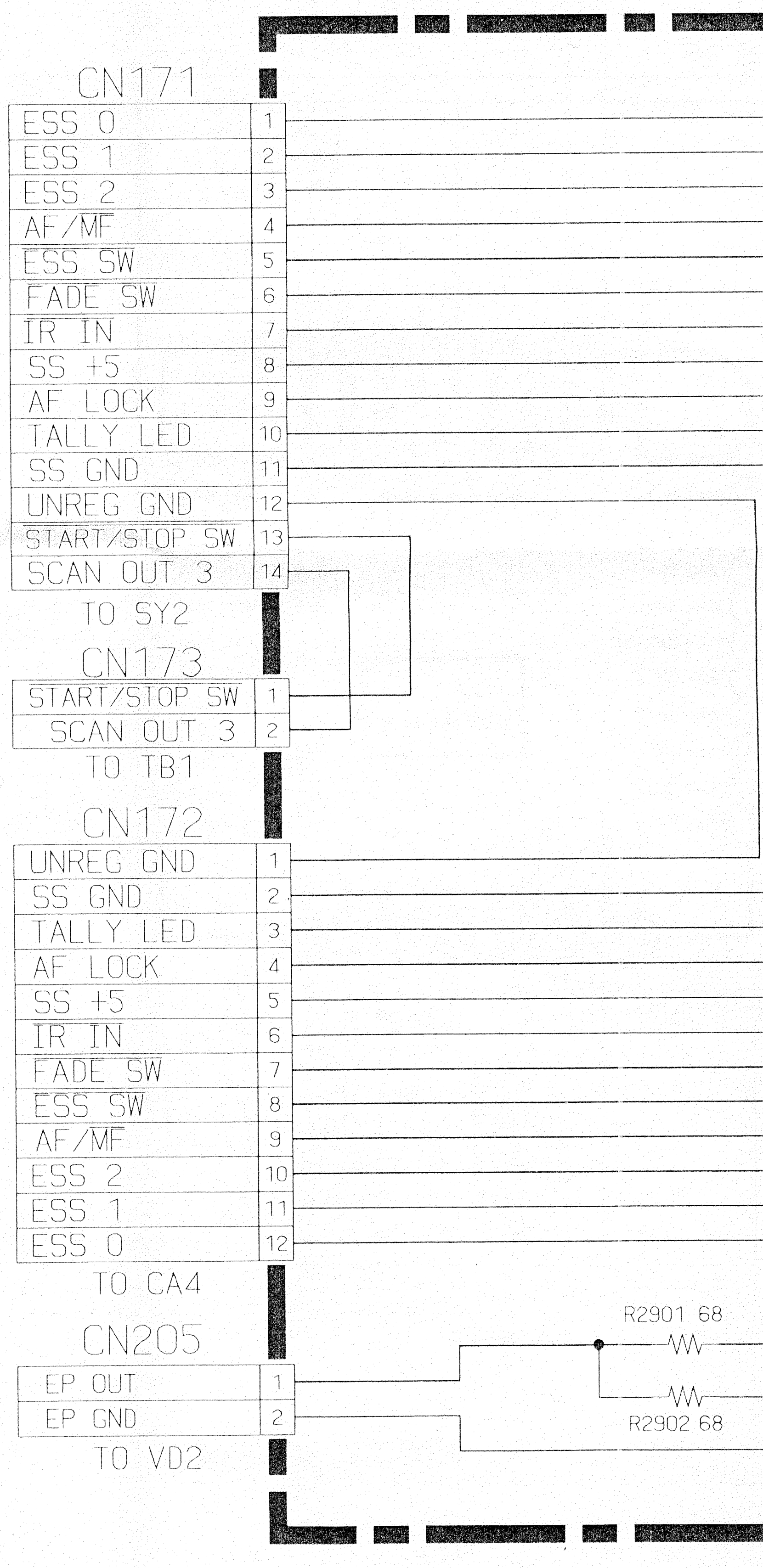
DM-1 BOARD SIDE A

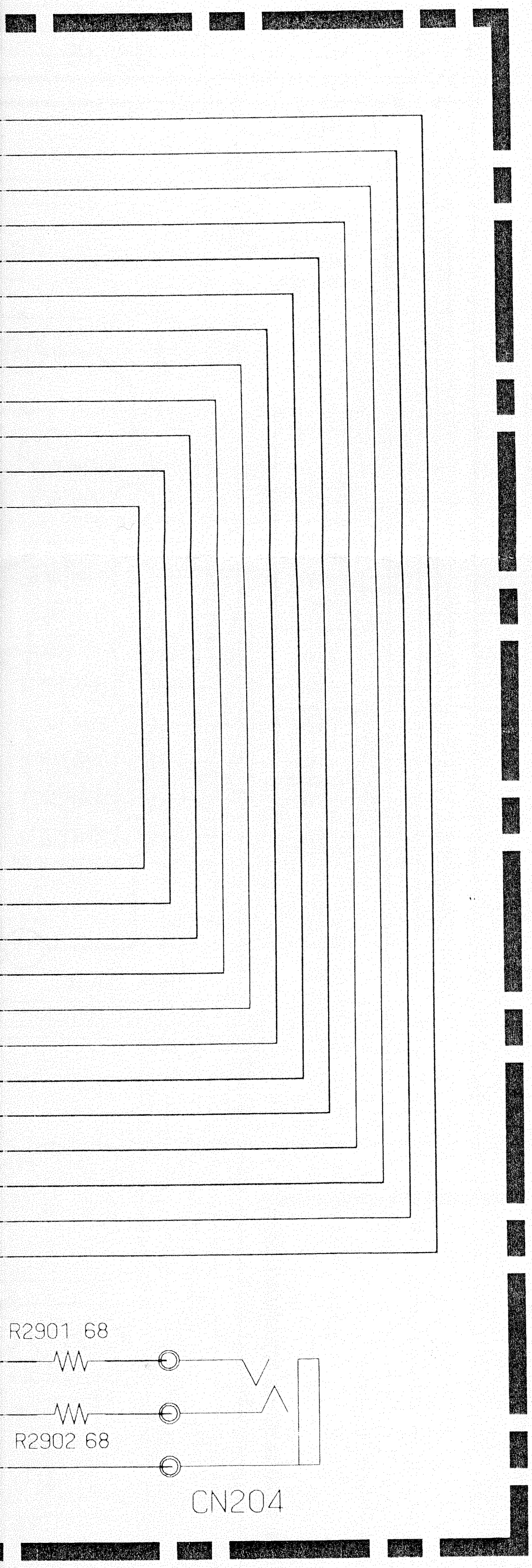

CN204
ER90
DM1
PRO
2AG4B11A
26500
2
1
CN173
2
1
CN205
SIDE-A
SANYO

DM-1 BOARD SIDE B

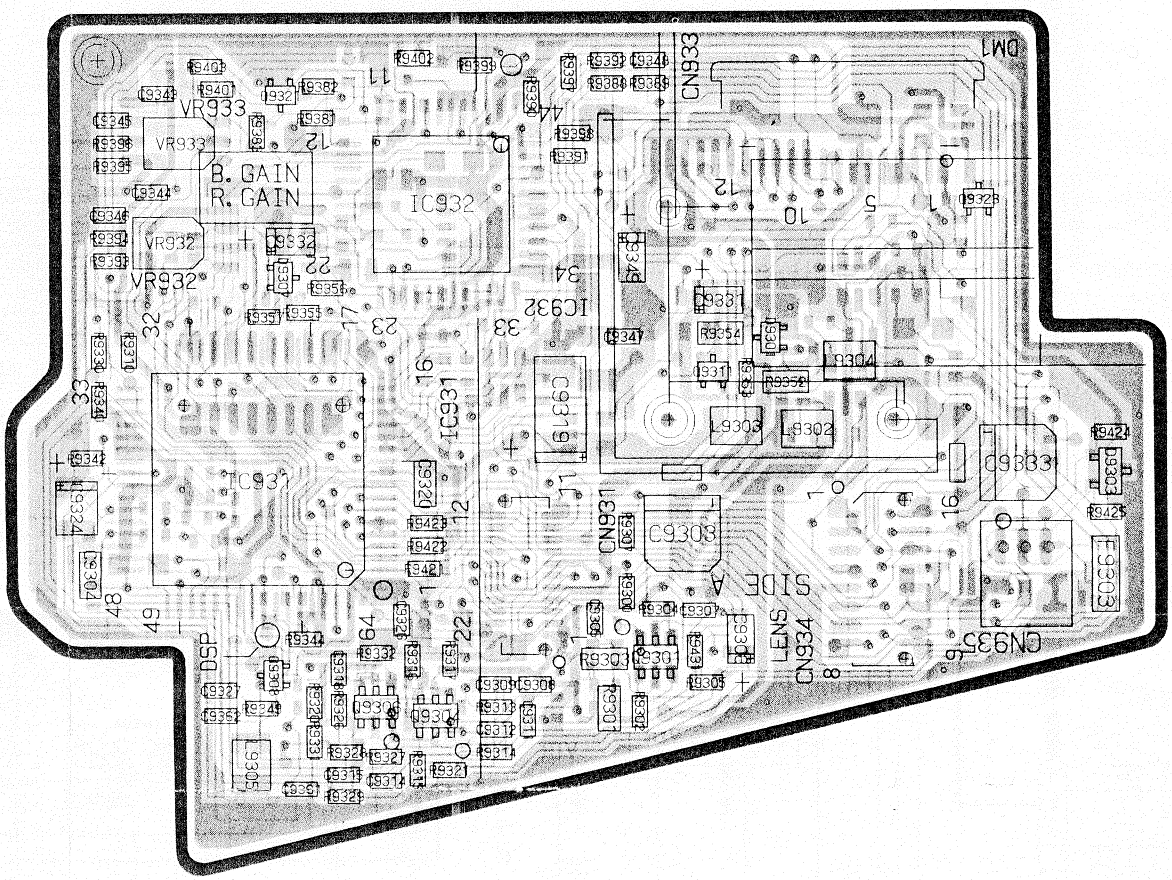

1
3
2
CN204
R2902
R2901
ER90
DM1
PRO
2AG4B11A
26500
1
CN171
SIDE-B
CN171
10
14
1
1012
CN172
CN172

DM-1 CIRCUIT

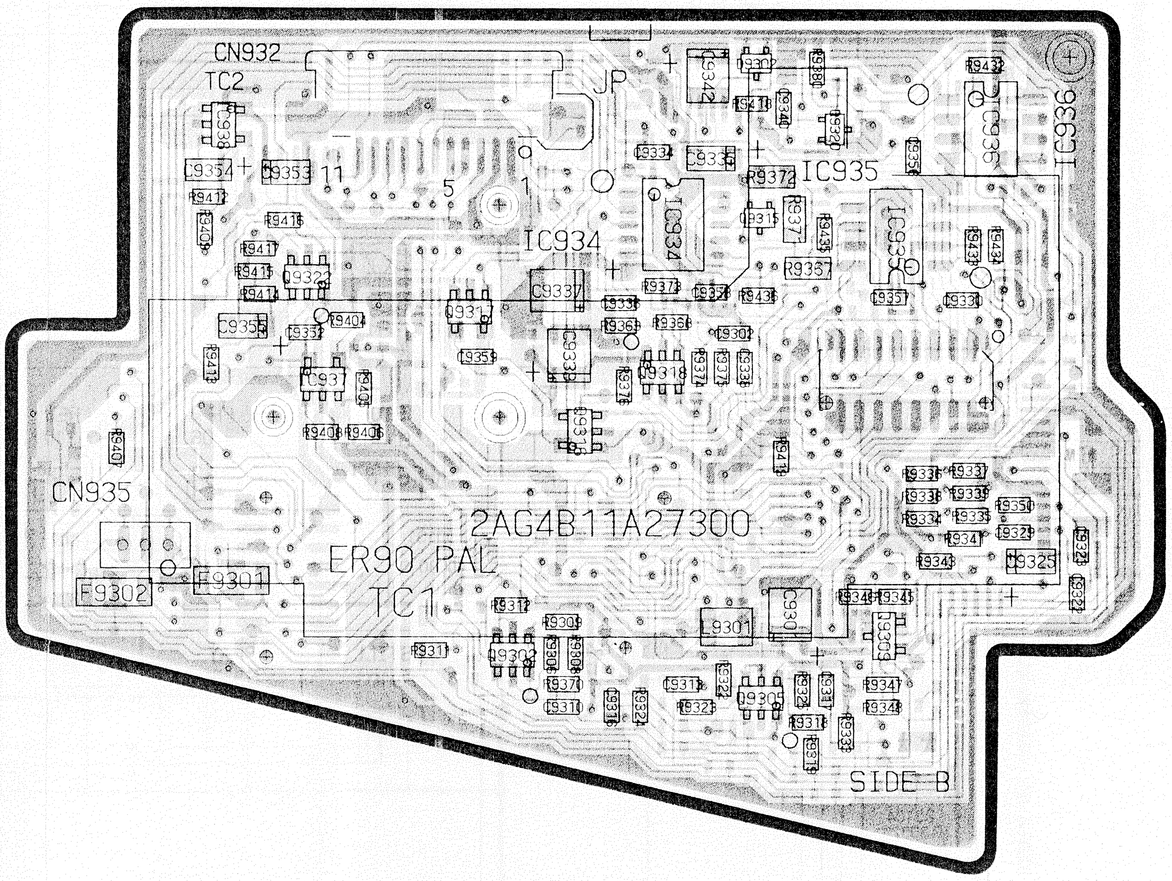

CN171
ESS 0 1
ESS 1 2
ESS 2 3
AF/MF 4
ESS SW 5
FADE SW 6
IR IN 7
SS +5 8
AF LOCK 9
TALLY LED 10
SS GND 11
UNREG GND 12
START/STOP SW 13
SCAN OUT 3 14
TO SY2
CN173
START/STOP SW 1
SCAN OUT 3 2
TO TB1
CN172
UNREG GND 1
SS GND 2
TALLY LED 3
AF LOCK 4
SS +5 5
IR IN 6
FADE SW 7
ESS SW 8
AF/MF 9
ESS 2 10
ESS 1 11
ESS 0 12
TO CA4
CN205
EP OUT 1
EP GND 2
TO VD2
R2901 68
R2902 68

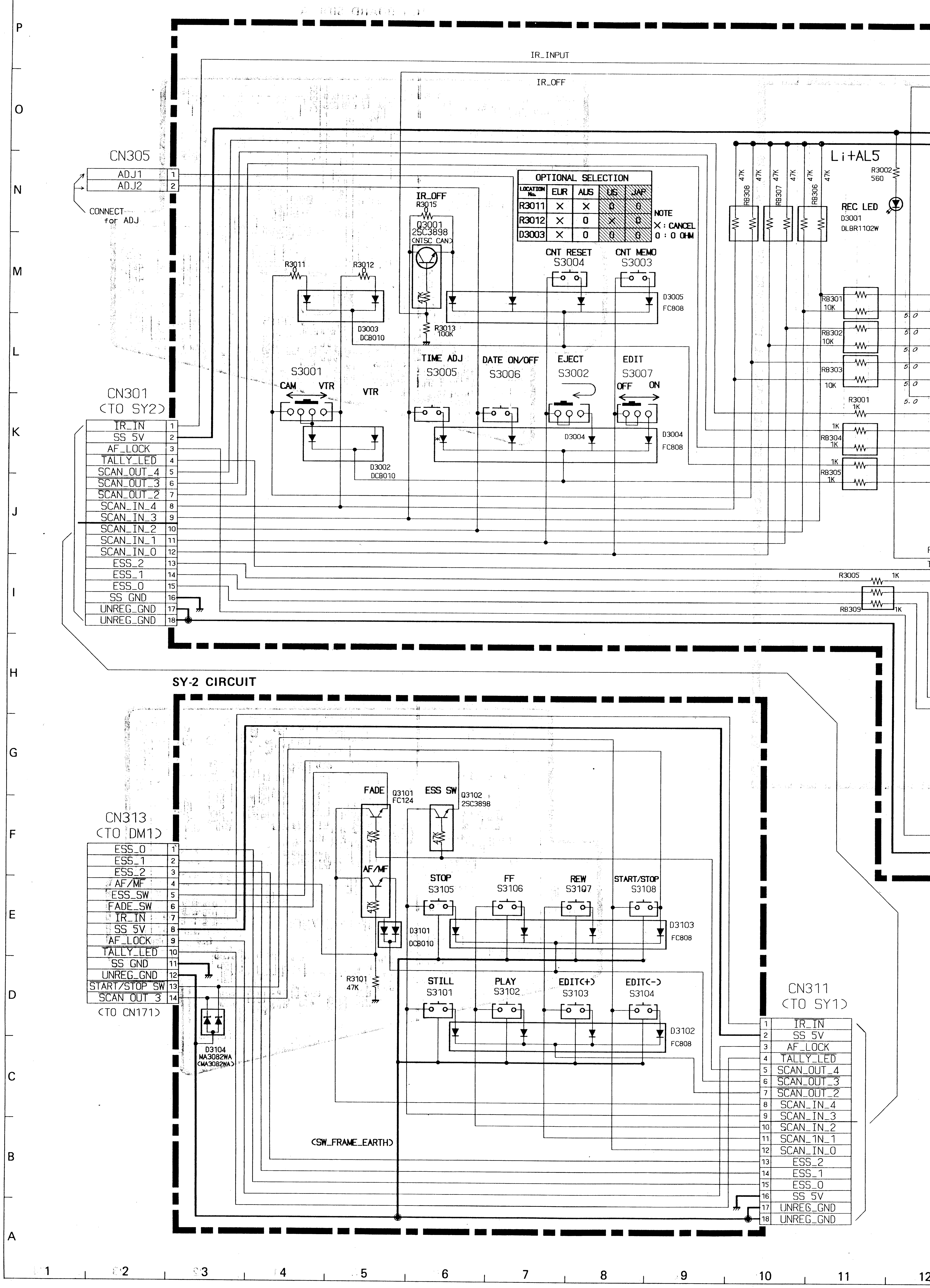

R2901 68
R2902 68
CN204

TC-1 BOARD SIDE A


VR933
VR932
B. GAIN
R. GAIN
IC932
IC931
CN933
CN931
CN934
CN935
IC9303
DSP
SIDE A
ENS
L9303
L9302
DM1

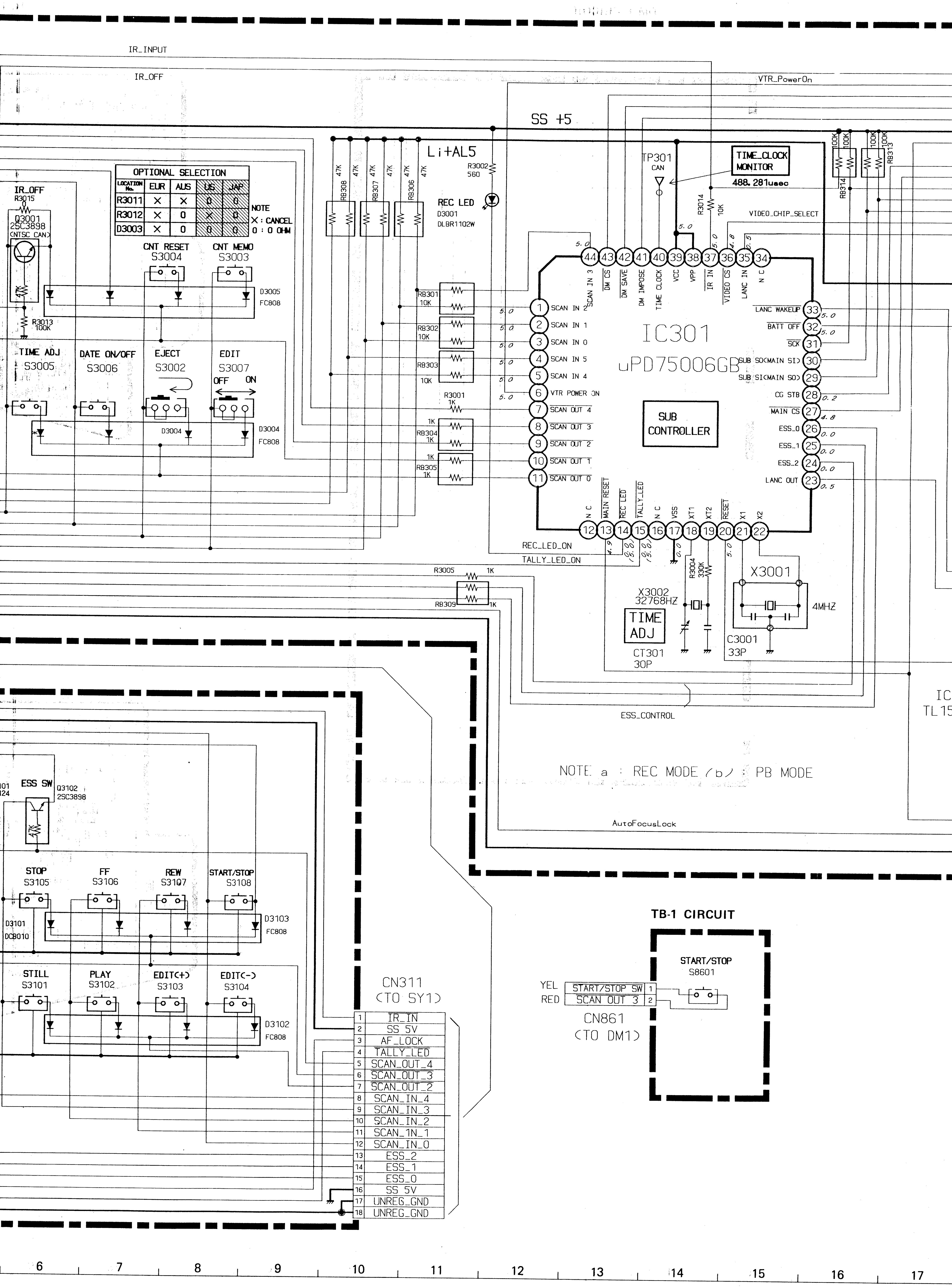
TC-1 BOARD SIDE B


CN932
TC2
JP
IC934
IC935
IC936
CN935
F9302
F9301
2AG4B11A27300
ER90 PAL
TC1
SIDE B


IR_INPUT
IR_OFF
CN305
ADJ1
ADJ2
CONNECT for ADJ
Li+AL5
R3002 560
REC LED D3001 DLBR1102W
RB308 47K 47K
RB307 47K 47K
RB306 47K 47K
IR_OFF R3015 0
Q3001 2SC3898 (NTSC CAN)
47K
R3013 100K
R3011 0
R3012 0
D3003 DCB010
CNT RESET S3004
CNT MEMO S3003
D3005 FC808
RB301 10K
RB302 10K
RB303 10K
R3001 1K
RB304 1K 1K
RB305 1K 1K
5.0
S3001 CAM VTR
VTR
TIME ADJ S3005
DATE ON/OFF S3006
EJECT S3002
EDIT S3007 OFF ON
D3002 DCB010
D3004
D3004 FC808
CN301 (TO SY2)
1 IR_IN
2 SS 5V
3 AF_LOCK
4 TALLY_LED
5 SCAN_OUT_4
6 SCAN_OUT_3
7 SCAN_OUT_2
8 SCAN_IN_4
9 SCAN_IN_3
10 SCAN_IN_2
11 SCAN_IN_1
12 SCAN_IN_0
13 ESS_2
14 ESS_1
15 ESS_0
16 SS GND
17 UNREG_GND
18 UNREG_GND
R3005 1K
RB309 1K
SY-2 CIRCUIT
FADE
Q3101 FC124
ESS SW
Q3102 2SC3898
47K
AF/MF
47K
D3101 DCB010
R3101 47K
STOP S3105
FF S3106
REW S3107
START/STOP S3108
D3103 FC808
STILL S3101
PLAY S3102
EDIT(+) S3103
EDIT(-) S3104
D3102 FC808
(SW_FRAME_EARTH)
CN313 (TO DM1)
1 ESS_0
2 ESS_1
3 ESS_2
4 AF/MF
5 ESS_SW
6 FADE_SW
7 IR_IN
8 SS 5V
9 AF_LOCK
10 TALLY_LED
11 SS GND
12 UNREG_GND
13 START/STOP SW
14 SCAN OUT 3
(TO CN171)
D3104 MA3082WA (MA3082WA)
CN311 (TO SY1)
1 IR_IN
2 SS 5V
3 AF_LOCK
4 TALLY_LED
5 SCAN_OUT_4
6 SCAN_OUT_3
7 SCAN_OUT_2
8 SCAN_IN_4
9 SCAN_IN_3
10 SCAN_IN_2
11 SCAN_IN_1
12 SCAN_IN_0
13 ESS_2
14 ESS_1
15 ESS_0
16 SS 5V
17 UNREG_GND
18 UNREG_GND
P
O
N
M
L
K
J
I
H
G
F
E
D
C
B
A
1
2
3
4
5
6
7
8
9
10
11
12

OPTIONAL SELECTION				
LOCATION No.	EUR	AUS	US	JAP
R3011	×	×	0	0
R3012	×	0	×	0
D3003	×	0	0	0

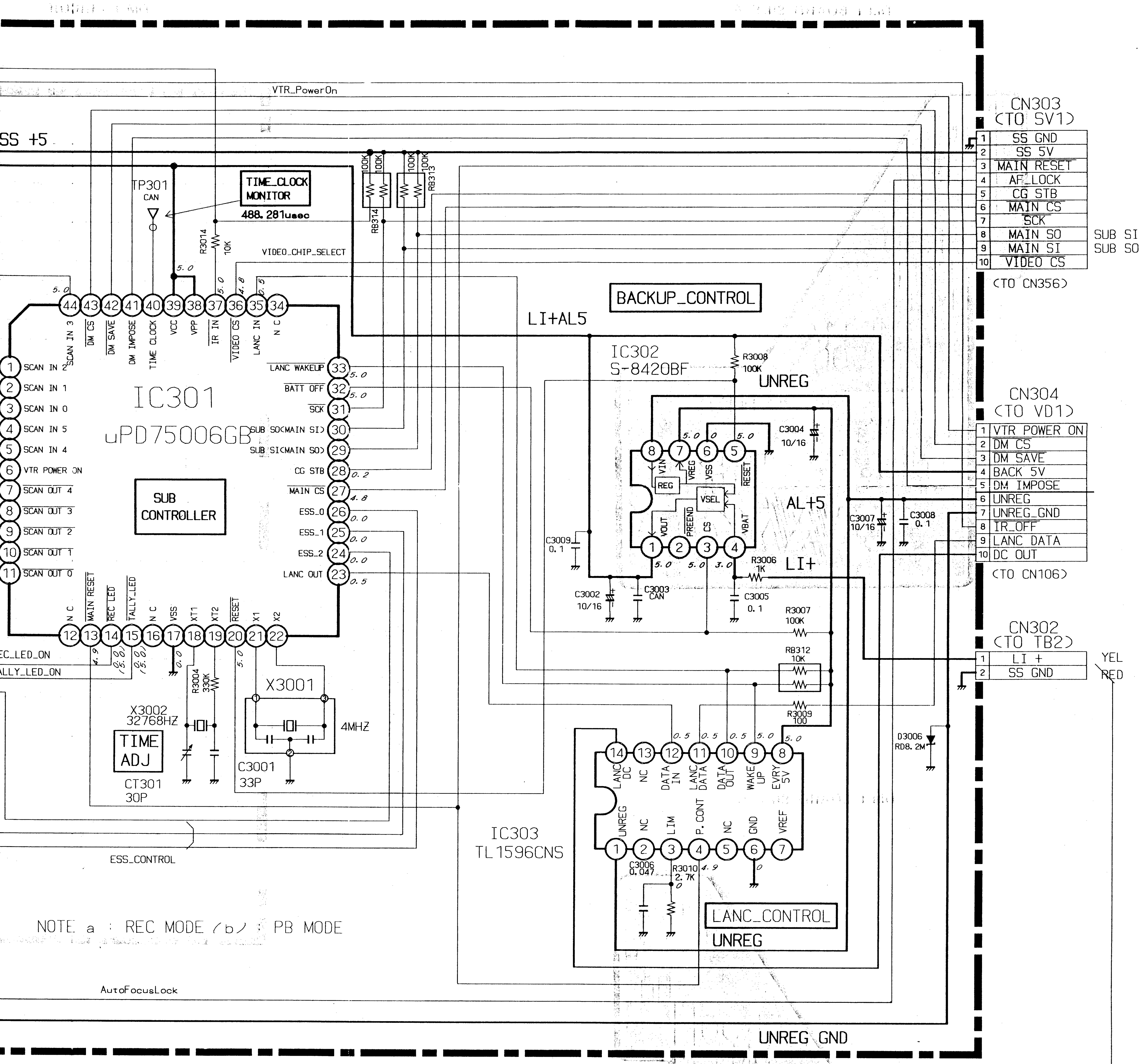
NOTE
× : CANCEL
0 : 0 OHM


IR_INPUT
IR_OFF
VTR_PowerOn
SS +5
Li+AL5
IR_OFF
R3015
Q3001
2SC3898
(NTSC CAN)
R3013
100K
CNT RESET
S3004
CNT MEMO
S3003
D3005
FC808
TIME ADJ
S3005
DATE ON/OFF
S3006
EJECT
S3002
EDIT
S3007
OFF ON
D3004
D3004
FC808
RB308
RB307
RB306
47K
R3002
560
REC LED
D3001
DLBR1102W
TP301
CAN
TIME_CLOCK
MONITOR
488.281usec
R3014
10K
RB314
RB313
100K
VIDEO_CHIP_SELECT
RB301
10K
RB302
10K
RB303
10K
R3001
1K
RB304
1K
RB305
1K
IC301
uPD75006GB
SUB
CONTROLLER
1 SCAN IN 2
2 SCAN IN 1
3 SCAN IN 0
4 SCAN IN 5
5 SCAN IN 4
6 VTR POWER ON
7 SCAN OUT 4
8 SCAN OUT 3
9 SCAN OUT 2
10 SCAN OUT 1
11 SCAN OUT 0
12 N C
13 MAIN RESET
14 REC LED
15 TALLY_LED
16 N C
17 VSS
18 XT1
19 XT2
20 RESET
21 X1
22 X2
23 LANC OUT
24 ESS_2
25 ESS_1
26 ESS_0
27 MAIN CS
28 CG STB
29 SUB SI(MAIN SO)
30 SUB SO(MAIN SI)
31 SCK
32 BATT OFF
33 LANC WAKEUP
34 N C
35 LANC IN
36 VIDEO CS
37 IR IN
38 VPP
39 VCC
40 TIME CLOCK
41 DM IMPOSE
42 DM SAVE
43 DM CS
44 SCAN IN 3
5.0
0.2
4.8
0.0
0.5
4.9
REC_LED_ON
TALLY_LED_ON
R3005
1K
RB309
1K
R3004
330K
X3002
32768HZ
TIME
ADJ
CT301
30P
X3001
4MHZ
C3001
33P
IC
TL15
ESS_CONTROL
NOTE a : REC MODE (b) : PB MODE
AutoFocusLock
ESS SW
Q3102
2SC3898
47K
STOP
S3105
FF
S3106
REW
S3107
START/STOP
S3108
D3101
DCB010
D3103
FC808
STILL
S3101
PLAY
S3102
EDIT(+)
S3103
EDIT(-)
S3104
D3102
FC808
CN311
(TO SY1)
1 IR_IN
2 SS 5V
3 AF_LOCK
4 TALLY_LED
5 SCAN_OUT_4
6 SCAN_OUT_3
7 SCAN_OUT_2
8 SCAN_IN_4
9 SCAN_IN_3
10 SCAN_IN_2
11 SCAN_IN_1
12 SCAN_IN_0
13 ESS_2
14 ESS_1
15 ESS_0
16 SS 5V
17 UNREG_GND
18 UNREG_GND
TB-1 CIRCUIT
START/STOP
S8601
YEL
RED
1 START/STOP SW
2 SCAN OUT 3
CN861
(TO DM1)
6
7
8
9
10
11
12
13
14
15
16
17

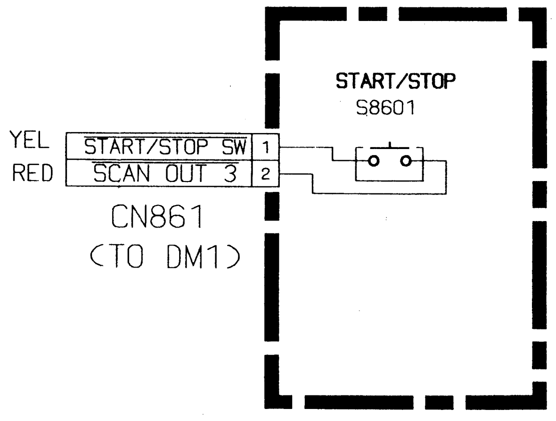
OPTIONAL SELECTION				
LOCATION No.	EUR	AUS	US	JAP
R3011	×	×	0	0
R3012	×	0	×	0
D3003	×	0	0	0

NOTE
× : CANCEL
0 : 0 OHM

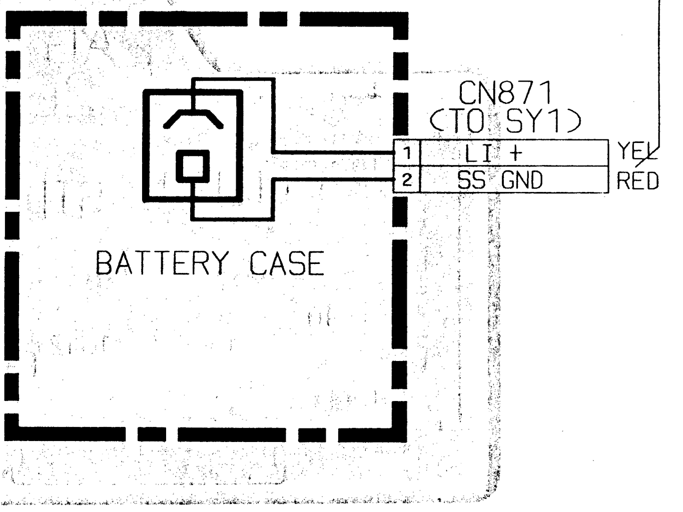
SY-1 CIRCUIT


VTR_PowerOn
SS +5
TP301
CAN
TIME_CLOCK MONITOR
488.281usec
R3014
10K
VIDEO_CHIP_SELECT
100K
100K
100K
100K
RB314
RB313
IC301
uPD75006GB
SUB CONTROLLER
SCAN IN 2
SCAN IN 1
SCAN IN 0
SCAN IN 5
SCAN IN 4
VTR POWER ON
SCAN OUT 4
SCAN OUT 3
SCAN OUT 2
SCAN OUT 1
SCAN OUT 0
SCAN IN 3
DM CS
DM SAVE
DM IMPOSE
TIME CLOCK
VCC
VPP
IR IN
VIDEO CS
LANC IN
N C
LANC WAKEUP
BATT OFF
SCK
SUB SOCMAIN SI)
SUB SICMAIN SO)
CG STB
MAIN CS
ESS_0
ESS_1
ESS_2
LANC OUT
N C
MAIN RESET
REC LED
TALLY_LED
N C
VSS
XT1
XT2
RESET
X1
X2
EC_LED_ON
ALLY_LED_ON
X3002
32768HZ
TIME ADJ
CT301
30P
R3004
330K
X3001
4MHZ
C3001
33P
ESS_CONTROL
NOTE a : REC MODE (b) : PB MODE
AutoFocusLock
BACKUP_CONTROL
LI+AL5
IC302
S-8420BF
R3008
100K
UNREG
VIN
VREG
VSS
RESET
REG
VSEL
VOUT
PREEND
CS
VBAT
C3004
10/16
AL+5
C3009
0.1
C3002
10/16
C3003
CAN
C3005
0.1
R3006
1K
LI+
R3007
100K
RB312
10K
R3009
100
C3007
10/16
C3008
0.1
D3006
RD8.2M
IC303
TL1596CNS
LANC DC
NC
DATA IN
LANC DATA
DATA OUT
WAKE UP
EVRY 5V
UNREG
NC
LIM
P.CONT
NC
GND
VREF
C3006
0.047
R3010
2.7K
LANC_CONTROL
UNREG
UNREG GND
CN303
(TO SV1)
1 SS GND
2 SS 5V
3 MAIN RESET
4 AF_LOCK
5 CG STB
6 MAIN CS
7 SCK
8 MAIN SO
9 MAIN SI
10 VIDEO CS
SUB SI
SUB SO
(TO CN356)
CN304
(TO VD1)
1 VTR POWER ON
2 DM CS
3 DM SAVE
4 BACK 5V
5 DM IMPOSE
6 UNREG
7 UNREG_GND
8 IR_OFF
9 LANC DATA
10 DC OUT
(TO CN106)
CN302
(TO TB2)
1 LI +
2 SS GND
YEL
RED

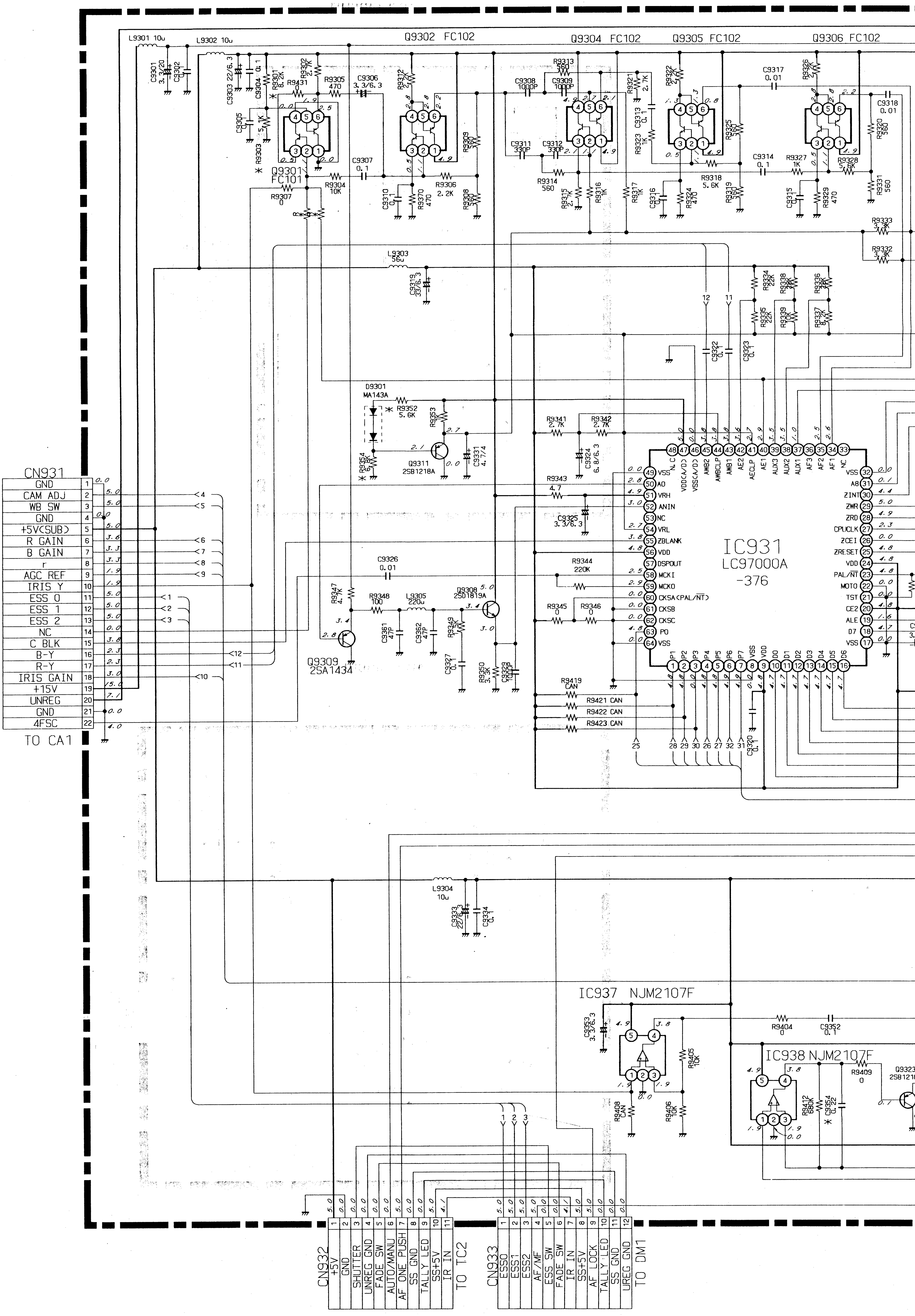
TB-1 CIRCUIT

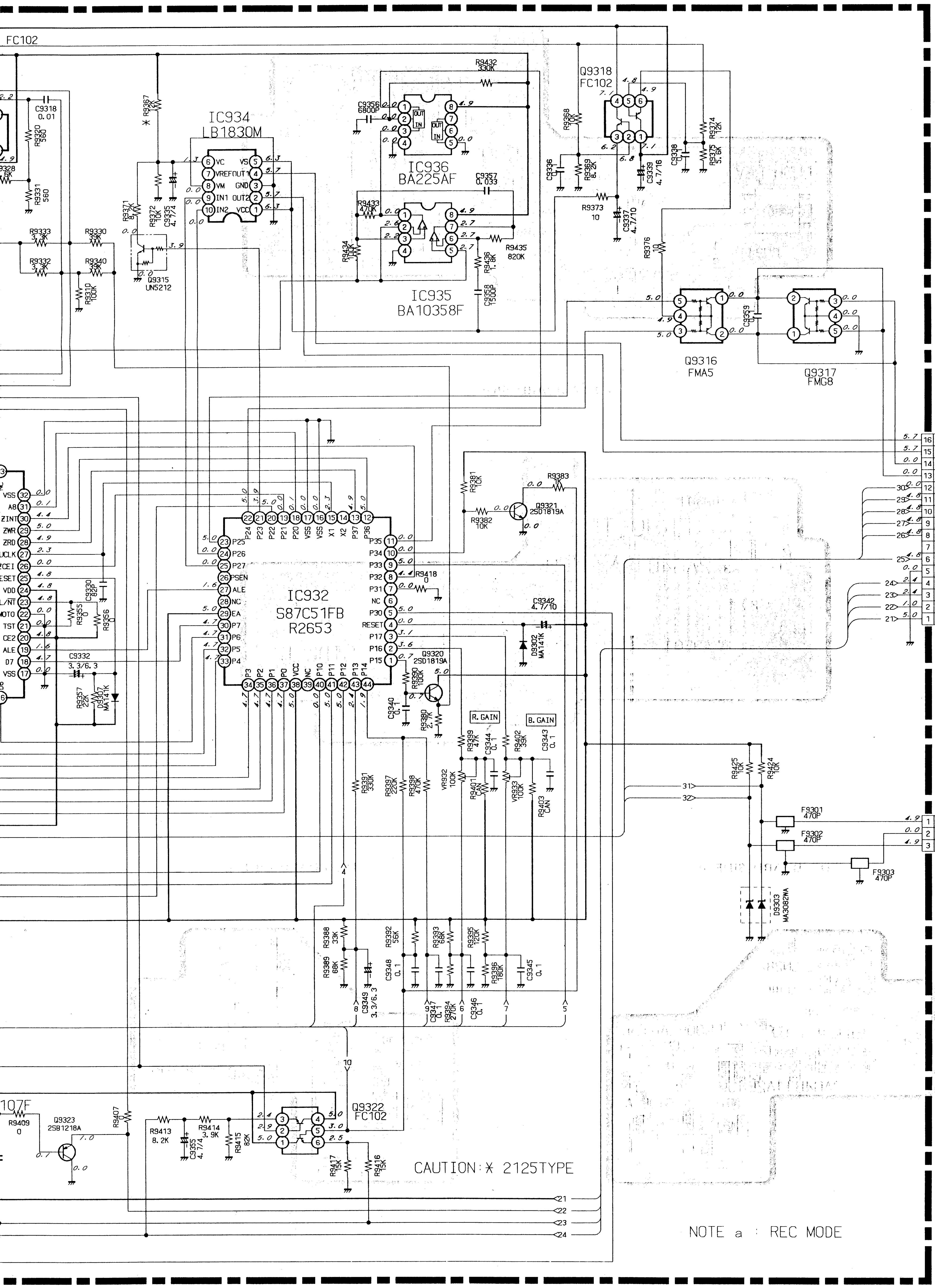

START/STOP
S8601
YEL
RED
1 START/STOP SW
2 SCAN OUT 3
CN861
(TO DM1)

TB-2 CIRCUIT

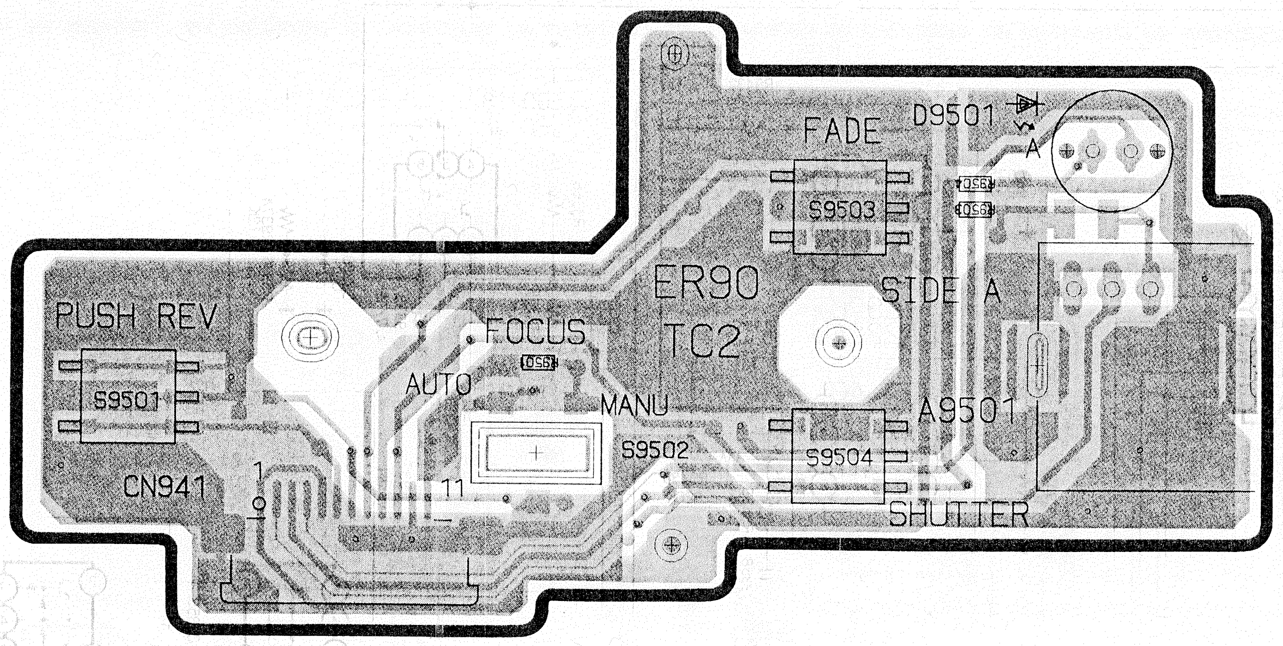

BATTERY CASE
CN871
(TO SY1)
1 LI +
2 SS GND
YEL
RED

13 14 15 16 17 18 19 20 21 22 23

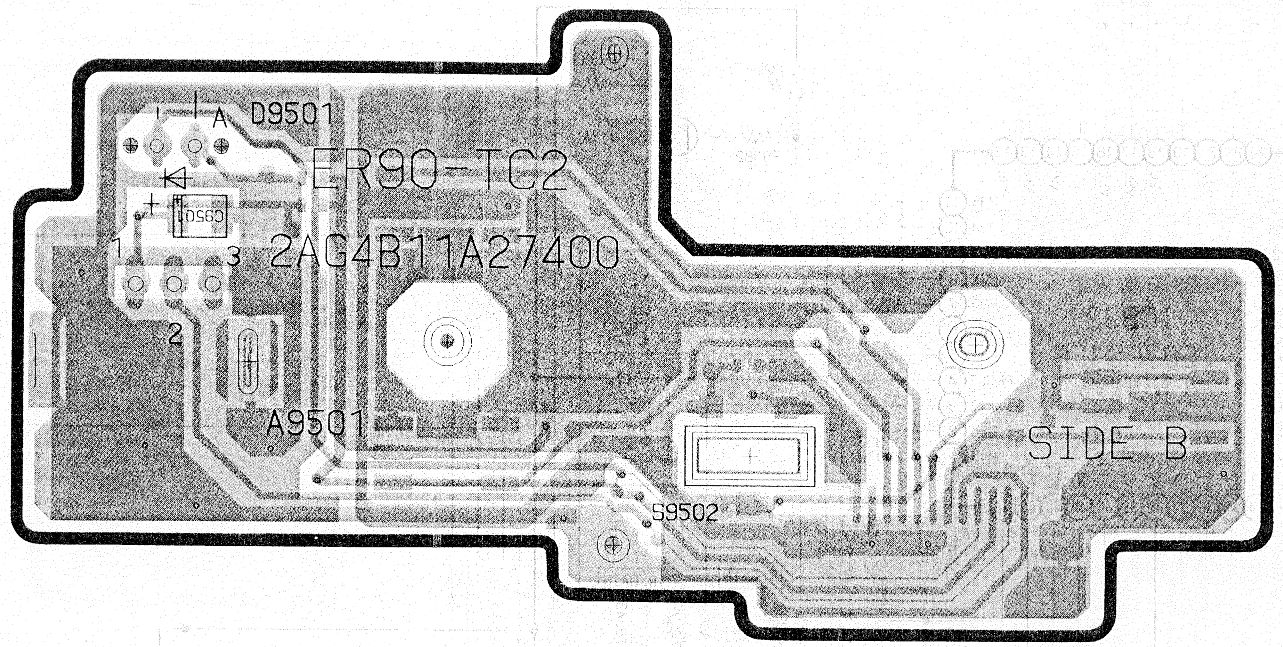

L9301 10u
L9302 10u
Q9302 FC102
Q9304 FC102
Q9305 FC102
Q9306 FC102
Q9301 FC101
Q9308 2SD1819A
Q9309 2SA1434
Q9311 2SB1218A
D9301 MA143A
L9303 56u
L9304 10u
L9305 220u
IC931
LC97000A
-376
IC937 NJM2107F
IC938 NJM2107F
CN931
GND
CAM ADJ
WB SW
GND
+5V(SUB)
R GAIN
B GAIN
r
AGC REF
IRIS Y
ESS 0
ESS 1
ESS 2
NC
C BLK
B-Y
R-Y
IRIS GAIN
+15V
UNREG
GND
4FSC
TO CA1
CN932
+5V
GND
SHUTTER
UNREG GND
FADE SW
AUTO/MANU
AF ONE PUSH
SS GND
TALLY LED
SS+5V
IR IN
TO TC2
CN933
ESS0
ESS1
ESS2
AF/MF
ESS SW
FADE SW
IR IN
SS+5V
AF LOCK
TALLY LED
SS GND
UREG GND
TO DM1
VSS
A0
VRH
ANIN
NC
VRL
ZBLANK
VDD
DSPOUT
MCKI
MCKO
CKSA(PAL/NT)
CKSB
CKSC
P0
VSS
A8
ZINT
ZWR
ZRD
CPUCLK
ZCEI
ZRESET
VDD
PAL/NT
MOTO
TST
CE2
ALE
D7
VSS
N.C
VDD(A/D)
VSS(A/D)
AWB2
AWBCLP
AWB1
AE2
AECLP
AE1
AUX3
AUX2
AUX1
AF3
AF2
AF1
NC
R9421 CAN
R9422 CAN
R9423 CAN
R9419 CAN
R9344 220K
C9326 0.01
Q9323 2SB121


FC102
IC934
LB1830M
IC936
BA225AF
IC935
BA10358F
Q9318
FC102
Q9316
FMA5
Q9317
FMG8
Q9315
UN5212
IC932
S87C51FB
R2653
Q9321
2SD1819A
Q9320
2SD1819A
Q9322
FC102
Q9323
2SB1218A
107F
R.GAIN
B.GAIN
VR932
VR933
D9302
MA141K
D9303
MA3082WA
F9301 470P
F9302 470P
F9303 470P
CN934
FM ∞
FM 1
ZM T
ZM W
NORMAL
MACRO
1
T
W
NC
∞
GND
B(+)
B(−)
D(−)
D(+)
TO TC4
CN935
ZOOM T
GND
ZOOM W
TO TC3
CAUTION: ✻ 2125TYPE
NOTE a : REC MODE

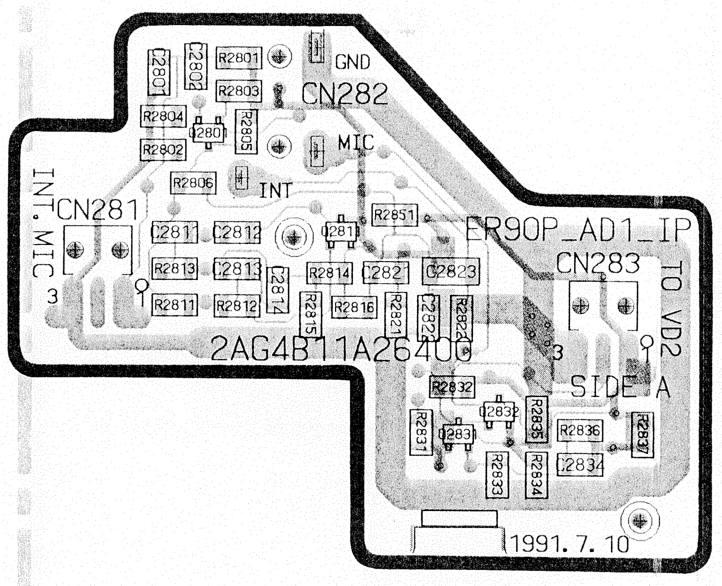
TC-2 BOARD SIDE A


FADE
D9501
A
S9503
ER90
TC2
SIDE A
PUSH REV
FOCUS
AUTO
MANU
S9501
S9502
S9504
A9501
CN941
1
11
SHUTTER

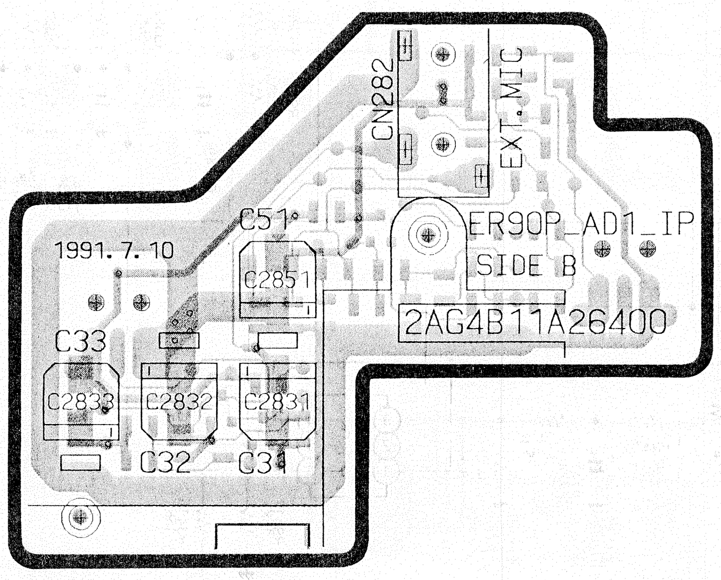
TC-2 BOARD SIDE B


A
D9501
ER90-TC2
2AG4B11A27400
1
3
2
A9501
SIDE B
S9502

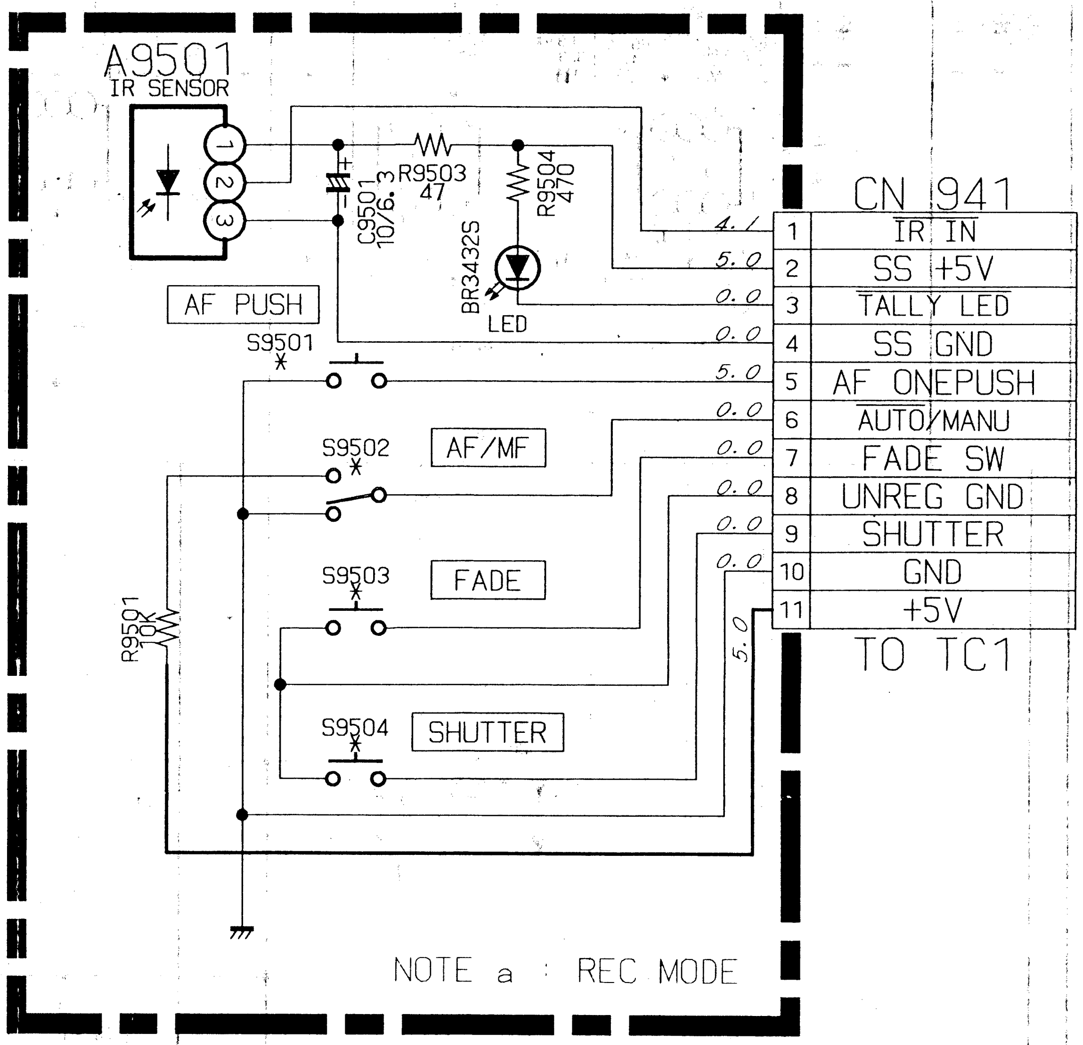
AD-1 BOARD SIDE A


GND
CN282
MIC
INT
INT.MIC
CN281
ER90P_AD1_IP
CN283
TO VD2
2AG4B11A2640
SIDE A
3
1991. 7. 10

AD-1 BOARD SIDE B

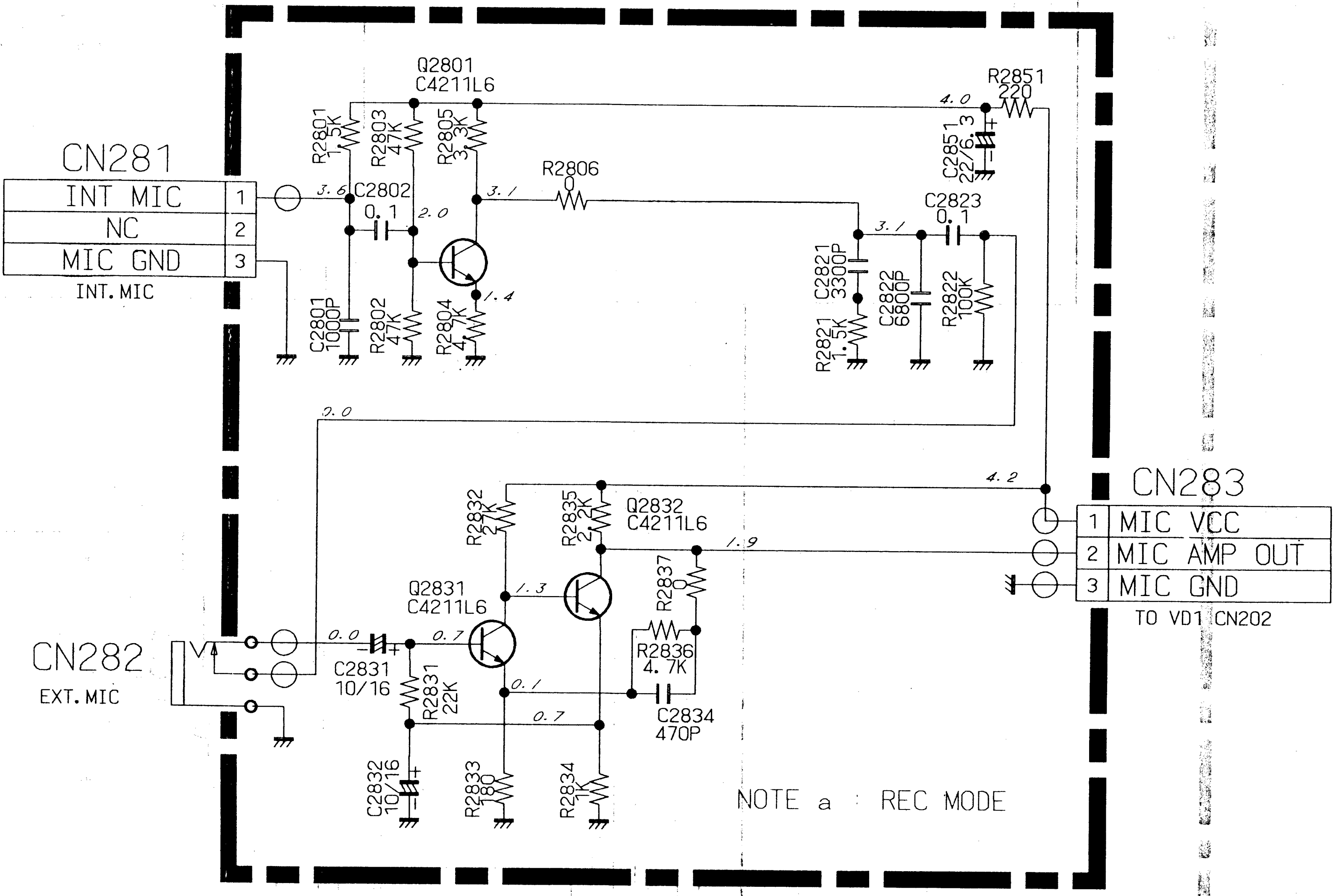

CN282
EXT.MIC
C51
1991. 7. 10
ER90P_AD1_IP
SIDE B
2AG4B11A26400
C33
C2851
C2833
C2832
C2831
C32
C31

TC-2 CIRCUIT



A9501
IR SENSOR
1
2
3
C9501 10/6.3
R9503 47
R9504 470
BR3432S
LED
AF PUSH
S9501
S9502
AF/MF
S9503
FADE
S9504
SHUTTER
R9501 10K
CN 941
4.1
5.0
0.0
0.0
5.0
0.0
0.0
0.0
0.0
0.0
5.0
1 IR IN
2 SS +5V
3 TALLY LED
4 SS GND
5 AF ONEPUSH
6 AUTO/MANU
7 FADE SW
8 UNREG GND
9 SHUTTER
10 GND
11 +5V
TO TC1
NOTE a : REC MODE

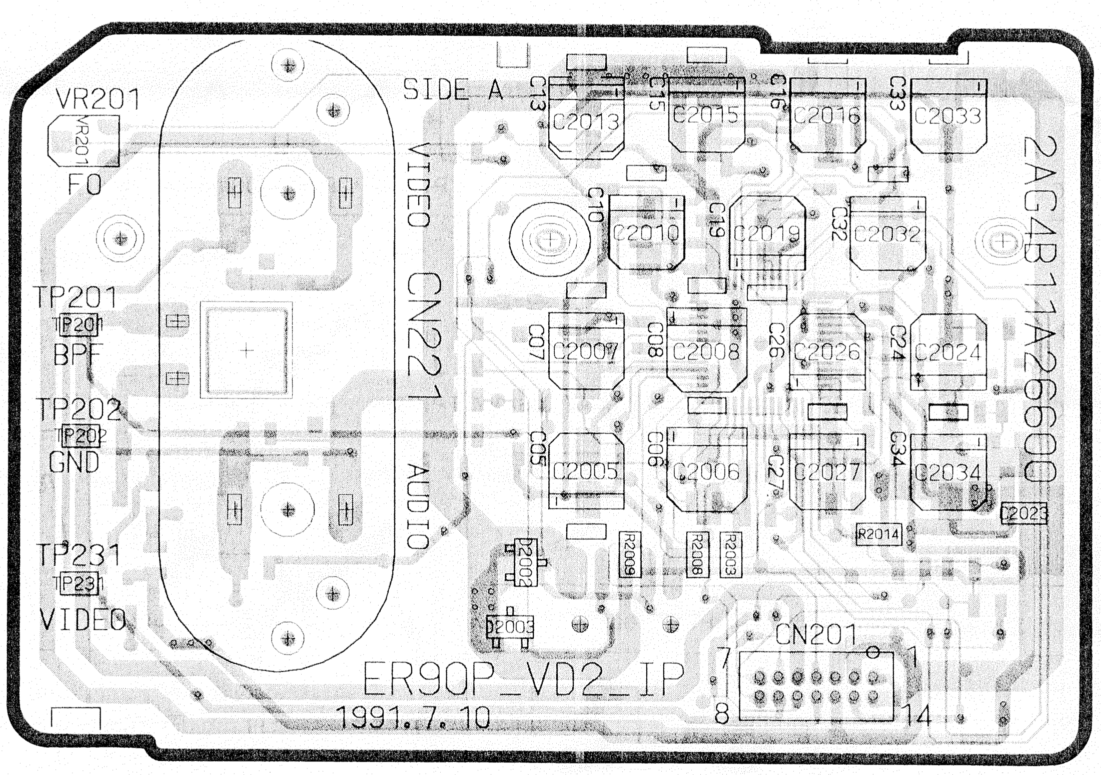
AD-1 CIRCUIT

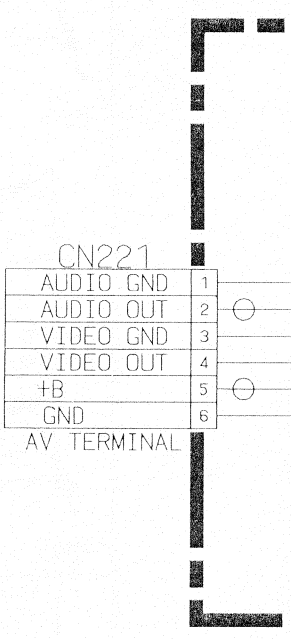


CN281
1 INT MIC
2 NC
3 MIC GND
INT. MIC
Q2801
C4211L6
R2801 1.5K
R2803 47K
R2805 3.3K
C2802 0.1
3.6
2.0
3.1
1.4
R2806 0
C2801 1000P
R2802 47K
R2804 4.7K
R2851 220
4.0
C2851 22/6.3
C2823 0.1
3.1
C2821 330P
C2822 6800P
R2822 100K
R2821 1.5K
0.0
4.2
CN283
1 MIC VCC
2 MIC AMP OUT
3 MIC GND
TO VD1 CN202
R2832 27K
R2835 2.2K
Q2832
C4211L6
1.9
R2837 0
Q2831
C4211L6
1.3
R2836 4.7K
CN282
EXT. MIC
0.0
0.7
C2831 10/16
R2831 22K
0.1
0.7
C2834 470P
C2832 10/16
R2833 180
R2834 1K
NOTE a : REC MODE

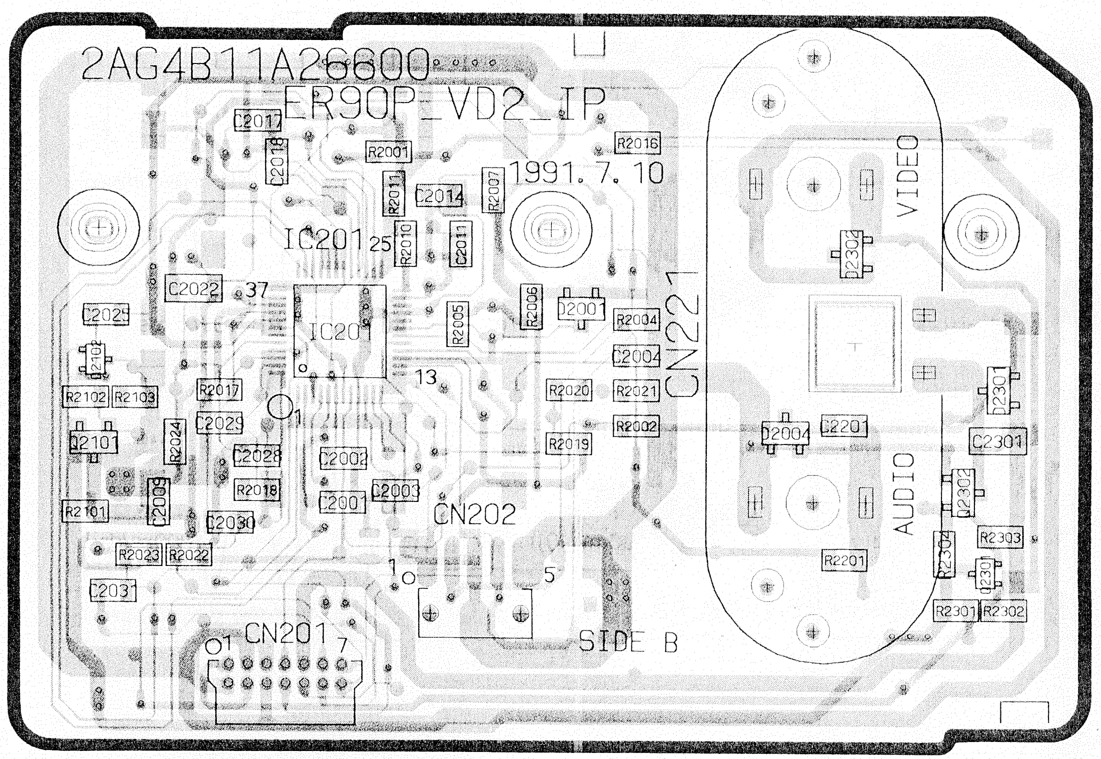
IP

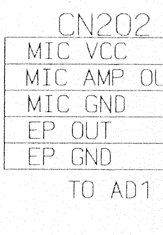
VD-1(AUDIO) BOARD SIDE A


SIDE A
VR201
FO
TP201
BPF
TP202
GND
TP231
VIDEO
VIDEO
CN221
AUDIO
2AG4B11A26600
ER90P_VD2_IP
1991.7.10
CN201
C2013
C2015
C2016
C2033
C2010
C2019
C2032
C2007
C2008
C2026
C2024
C2005
C2006
C2027
C2034
C2023
R2014
R2009
R2008
R2003
Q2003
7
8
1
14

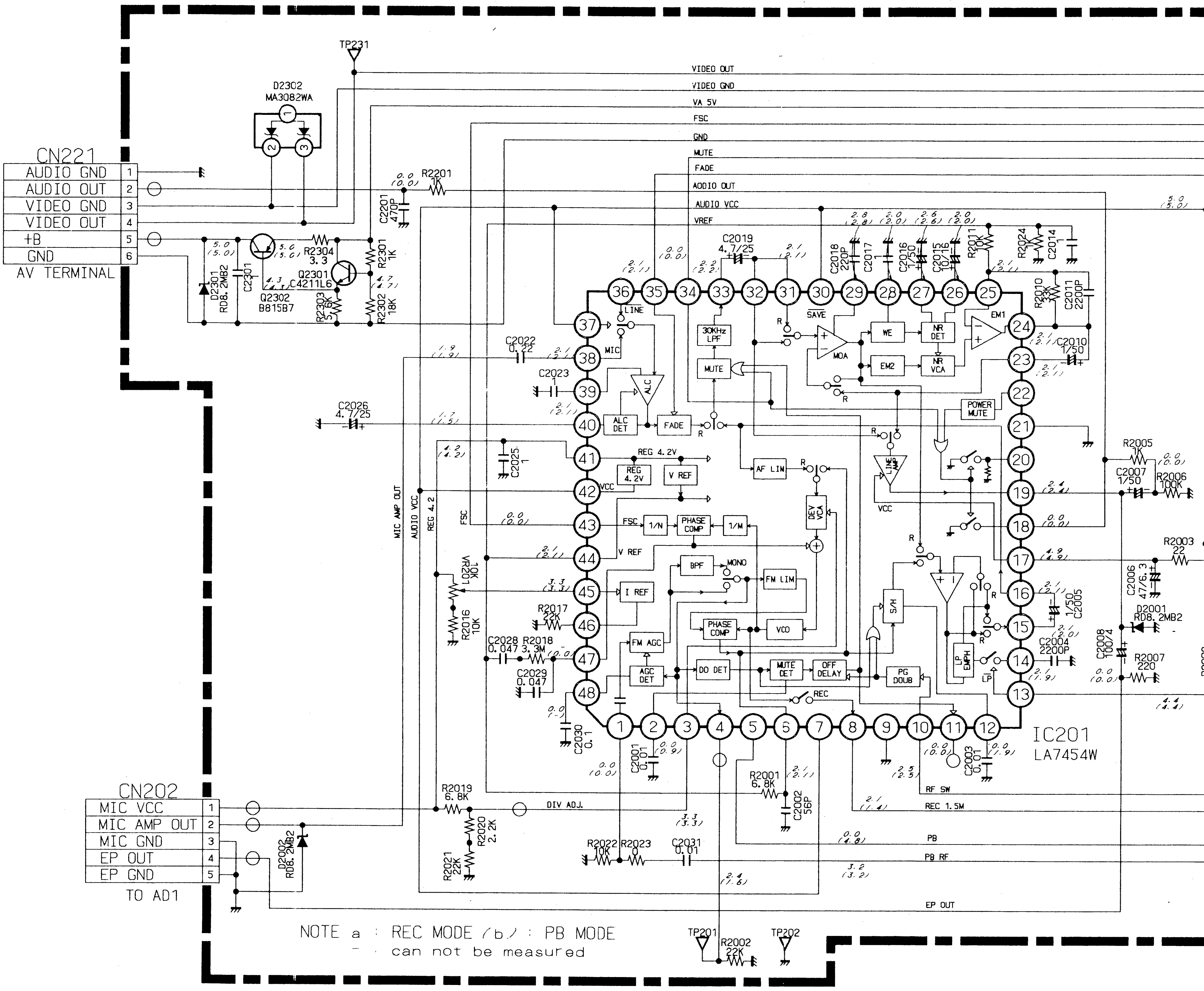

CN221
AUDIO GND 1
AUDIO OUT 2
VIDEO GND 3
VIDEO OUT 4
+B 5
GND 6
AV TERMINAL

VD-1(AUDIO) BOARD SIDE B


2AG4B11A26600
ER90P_VD2_IP
1991.7.10
IC201
25
37
13
1
CN221
VIDEO
AUDIO
CN202
CN201
SIDE B
C2017
C2018
R2001
R2016
C2014
R2007
C2011
C2022
C2025
R2102
R2103
R2017
C2029
Q2101
C2028
R2018
C2002
C2001
C2003
R2101
C2030
R2023
R2022
C2031
R2005
R2006
Q2001
R2004
C2004
R2020
R2021
R2002
R2019
Q2004
C2201
R2201
C2301
R2303
R2301
R2302
Q2301
D2302
1
5
7


CN202
MIC VCC
MIC AMP OU
MIC GND
EP OUT
EP GND
TO AD1

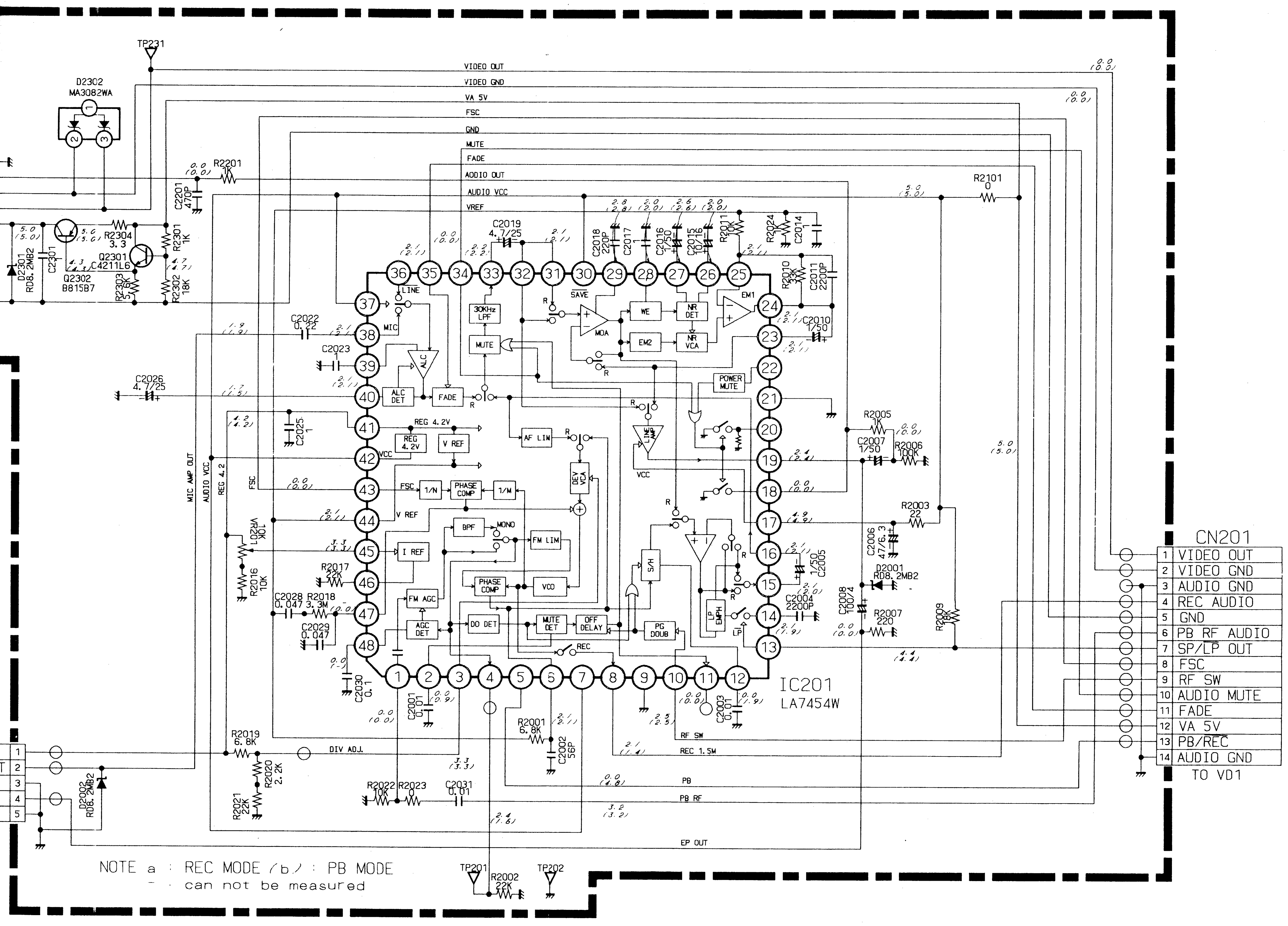
VD-1(AUDIO) CIRCUIT



CN221
1 AUDIO GND
2 AUDIO OUT
3 VIDEO GND
4 VIDEO OUT
5 +B
6 GND
AV TERMINAL
TP231
D2302 MA3082WA
R2201 1K
C2201 470P
R2304 3.3
R2301 1K
R2302 18K
R2303 56K
Q2301 C4211L6
Q2302 B815B7
D2301 RD8.2MB2
C2301
VIDEO OUT
VIDEO GND
VA 5V
FSC
GND
MUTE
FADE
AUDIO OUT
AUDIO VCC
VREF
C2019 4.7/25
C2018 220P
C2017 1
C2016 1/50
C2015 10/16
R2011 10K
R2024 1K
C2014 1
R2010 33K
C2011 2200P
C2010 1/50
C2022 0.22
C2023
C2026 4.7/25
C2025 1
LINE
MIC
ALC
ALC DET
FADE
30KHz LPF
MUTE
SAVE
MOA
WE
NR DET
EM1
EM2
NR VCA
POWER MUTE
LINE AMP
VCC
REG 4.2V
V REF
AF LIM
DEV VCA
FSC
1/N
PHASE COMP
1/M
V REF
BPF
MONO
FM LIM
I REF
PHASE COMP
VCO
FM AGC
AGC DET
DO DET
MUTE DET
OFF DELAY
PG DOUB
REC
S/H
LP EMPH
LP
R
MIC AMP OUT
AUDIO VCC
REG 4.2
FSC
VR201 10K
R2016 10K
R2017 22K
C2028 0.047
R2018 3.3M
C2029 0.047
C2030 0.1
C2001 0.01
C2003 0.1
R2001 6.8K
C2002 56P
IC201
LA7454W
R2005 1K
C2007 1/50
R2006 100K
R2003 22
C2006 47/6.3
C2005 1/50
D2001 RD8.2MB2
C2004 2200P
C2008 100/4
R2007 220
RF SW
REC 1.5M
PB
PB RF
EP OUT
DIV ADJ.
R2019 6.8K
R2020 2.2K
R2021 22K
R2022 10K
R2023 0
C2031 0.01
CN202
1 MIC VCC
2 MIC AMP OUT
3 MIC GND
4 EP OUT
5 EP GND
TO AD1
D2002 RD8.2MB2
TP201
R2002 22K
TP202
9
10
11
12
13
14
15
16
17
18
19
20

NOTE a : REC MODE (b) : PB MODE
- : can not be measured

VD-1(AUDIO) CIRCUIT

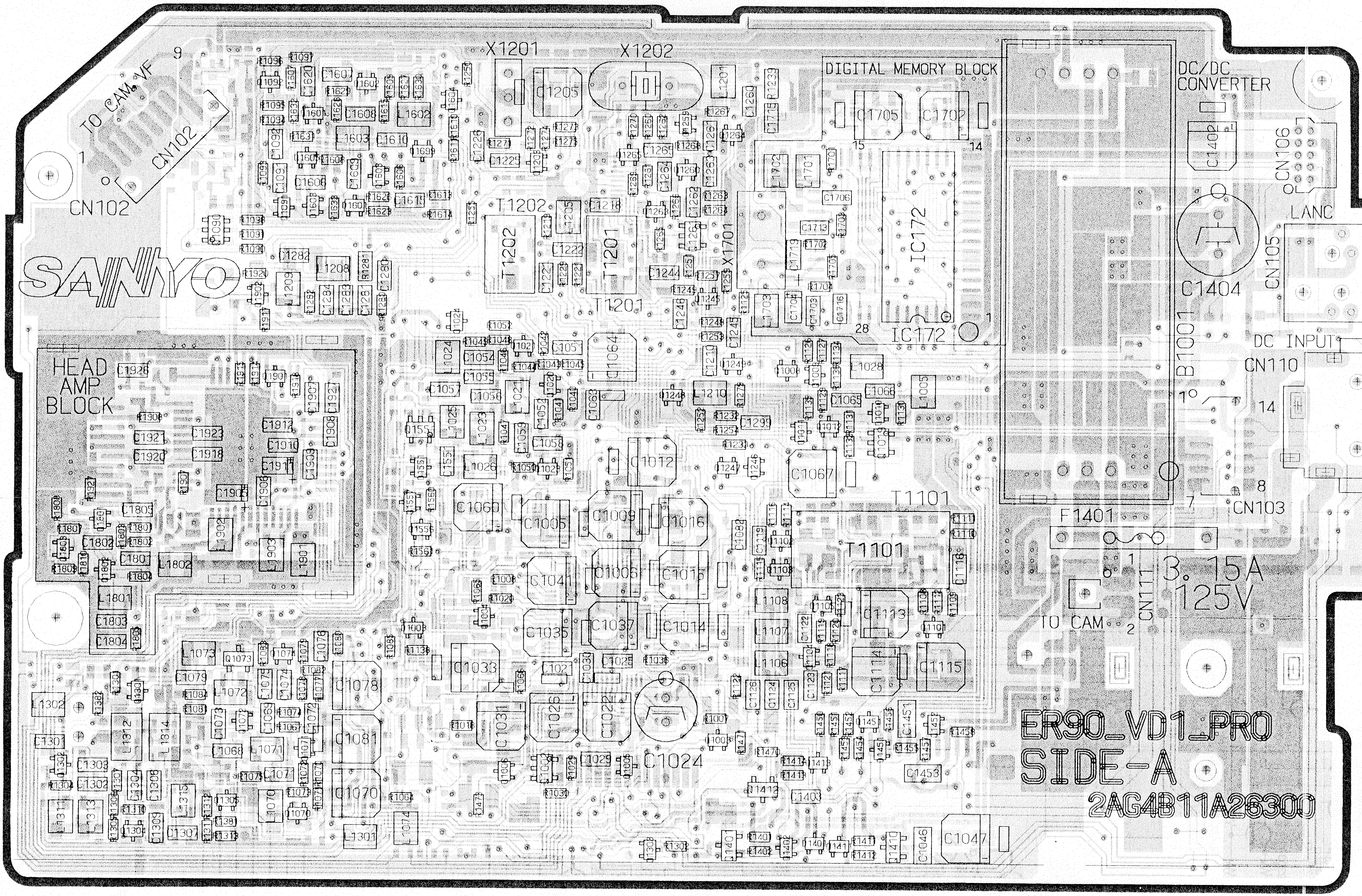

TP231
D2302
MA3082WA
R2201
1K
C2201
470P
R2304
3.3
Q2301
C4211L6
Q2302
B815B7
R2301
1K
R2302
18K
R2303
5.6K
D2301
RD6.2MB2
C2301
VIDEO OUT
VIDEO GND
VA 5V
FSC
GND
MUTE
FADE
AUDIO OUT
AUDIO VCC
VREF
R2101
0
C2019
4.7/25
C2018
220P
C2017
C2016
1/50
C2015
10/16
R2011
10K
R2024
C2014
R2010
33K
C2011
2200P
C2010
1/50
C2022
0.22
C2023
C2026
4.7/25
C2025
1
LINE
MIC
30KHz LPF
MUTE
ALC
ALC DET
FADE
SAVE
MOA
WE
NR DET
EM1
EM2
NR VCA
POWER MUTE
AF LIM
LINE AMP
REG 4.2V
V REF
DEV VCA
FSC
1/N
PHASE COMP
1/M
V REF
BPF
MONO
FM LIM
I REF
PHASE COMP
VCO
FM AGC
AGC DET
DO DET
MUTE DET
OFF DELAY
PG DOUB
S/H
LP EMPH
REC
VCC
MIC AMP OUT
AUDIO VCC
REG 4.2
FSC
VR201
10K
R2016
10K
R2017
22K
C2028
0.047
R2018
3.3M
C2029
0.047
C2030
0.1
C2001
0.01
C2003
0.01
R2001
6.8K
C2002
56P
R2005
1K
C2007
1/50
R2006
100K
R2003
22
C2006
47/6.3
C2005
1/50
D2001
RD8.2MB2
C2004
2200P
C2008
100/4
R2007
220
R2009
18K
IC201
LA7454W
R2019
6.8K
DIV ADJ.
R2020
2.2K
R2021
22K
D2202
RD6.2MB2
R2022
10K
R2023
0
C2031
0.01
RF SW
REC 1.5M
PB
PB RF
EP OUT
TP201
R2002
22K
TP202
CN201
1 VIDEO OUT
2 VIDEO GND
3 AUDIO GND
4 REC AUDIO
5 GND
6 PB RF AUDIO
7 SP/LP OUT
8 FSC
9 RF SW
10 AUDIO MUTE
11 FADE
12 VA 5V
13 PB/REC
14 AUDIO GND
TO VD1

NOTE a : REC MODE (b) : PB MODE
- : can not be measured

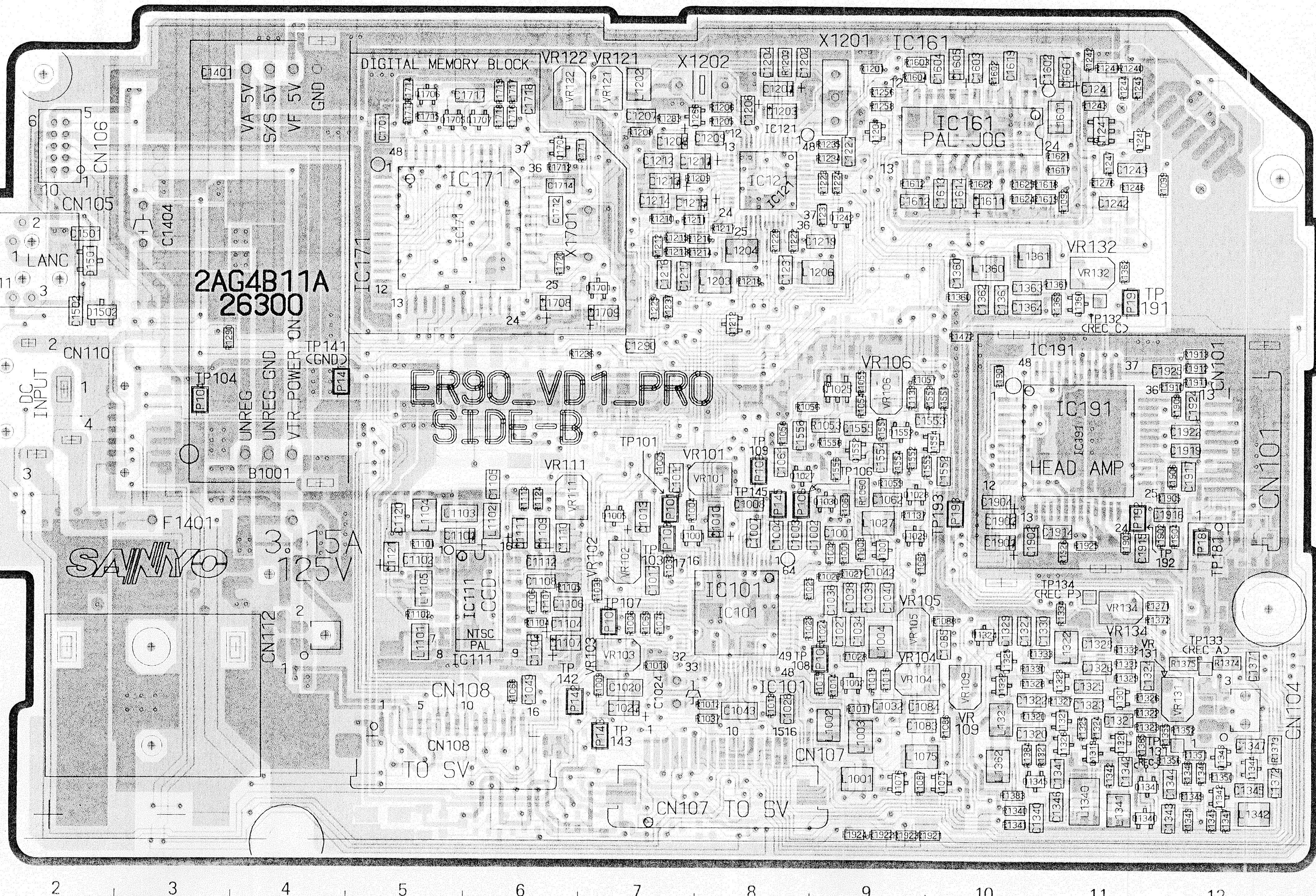
L

12 13 14 15 16 17 18 19 20 21 22 23

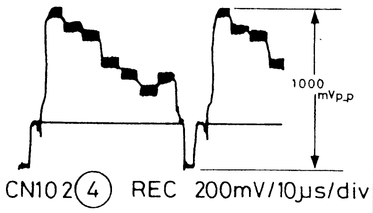
VD-1(VIDEO) BOARD SIDE A


TO CAM. VF
CN102
SANYO
X1201
X1202
DIGITAL MEMORY BLOCK
IC172
DC/DC CONVERTER
CN106
LANC
CN105
C1404
B1001
DC INPUT
CN110
CN103
F1401
3.15A 125V
CN111
TO CAM
HEAD AMP BLOCK
T1202
T1201
T1101
ER90_VD1_PRO
SIDE-A
2AG4B11A26300

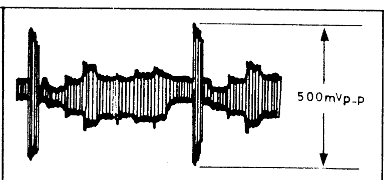
VD-1(VIDEO) BOARD SIDE B


DIGITAL MEMORY BLOCK
VR122
VR121
X1202
X1201
IC161
PAL JOG
IC171
IC121
VA 5V
SYS 5V
VF 5V
GND
CN106
CN105
LANC
C1404
2AG4B11A
26300
TP141 (GND)
TP104
UNREG
UNREG GND
VTR POWER ON
B1001
CN110
DC INPUT
F1401
3.15A 125V
SANYO
CN112
ER90_VD1_PRO
SIDE-B
VR111
VR101
VR102
VR103
IC111 CCD
NTSC PAL
CN108
TO SV
IC101
CN107 TO SV
VR106
VR105
VR104
VR109
VR132
TP191
TP132 (REC C)
IC191
HEAD AMP
CN101
TP192
TP181
TP134 (REC P)
VR134
VR131
TP133 (REC A)
CN104
2
3
4
5
6
7
8
9
10
11
12

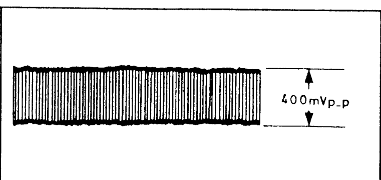
VD-1 BOARD(VIDEO)



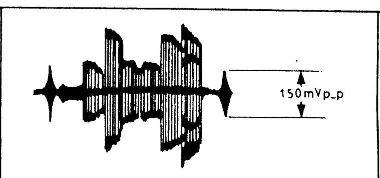
CN102④ REC 200mV/10μs/div



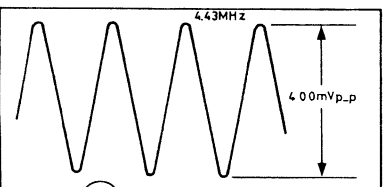
IC121 ㊵ REC 100mV/10μs/div



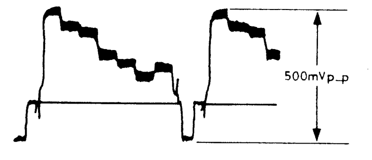
IC101 ㊸ PB 200mV/5ms/div



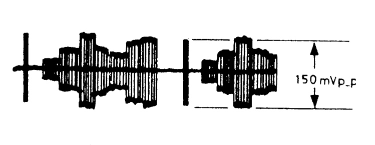
Q1241③ PB 100mV/10μs/div



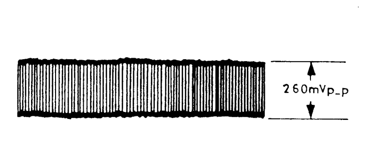
IC121 ⑫ REC/PB 100mV/100ns/div



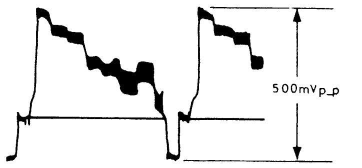
IC101 ㉘ REC 100mV/10μs/div



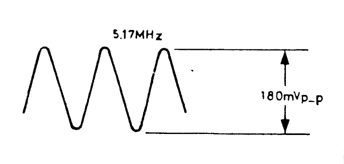
IC121 ㊹ REC 100mV/10μs/div



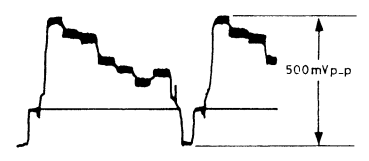
IC101 ㊺ PB 100mV/5ms/div



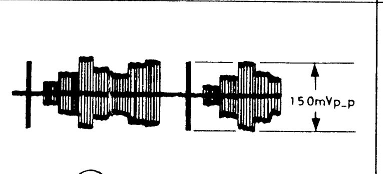
IC101 ㉚ PB 100mV/10μs/div



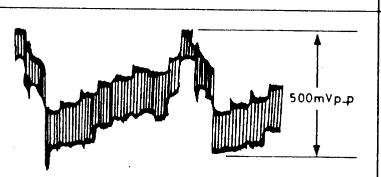
IC121 ④ REC/PB 50mV/100ns/div



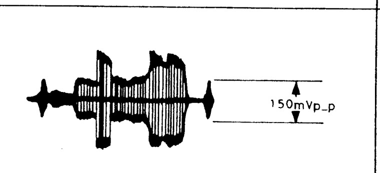
IC101 ㉚ REC 100mV/10μs/div



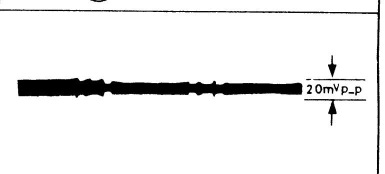
IC101 (52) REC 50mV/10μs/div



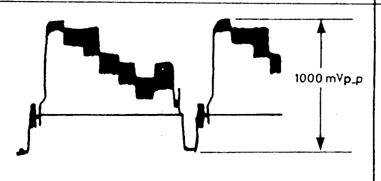
IC111 ④ PB 100mV/10μs/div



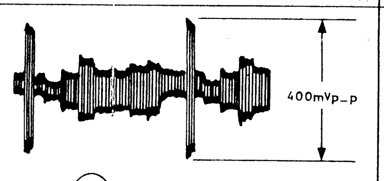
IC101 (52) PB 50mV/10μs/div



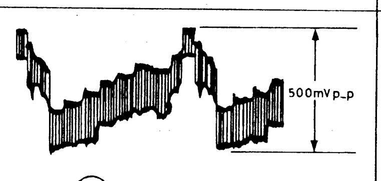
IC121 ⑳ ㉑ PB 50mV/5ms/div



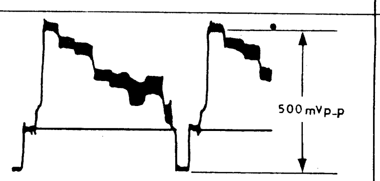
TP104 REC 200mV/10μs/div



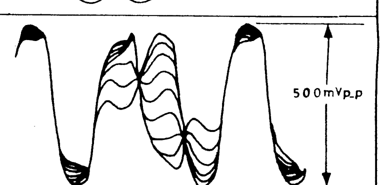
IC121 ㉔ REC 100mV/10μs/div



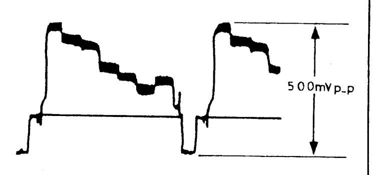
IC111 ⑥ PB 100mV/10μs/div



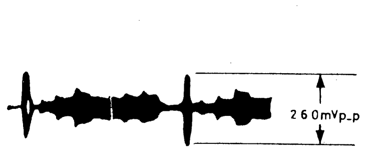
TP103 PB 100mV/10μs/div



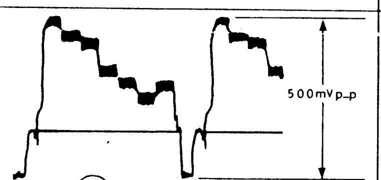
IC121 ② REC/PB 100mV/100ns/div



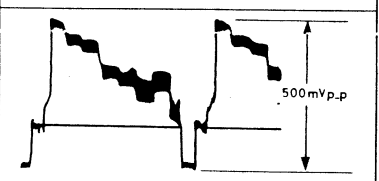
Q1021E REC 100mV/10μs/div



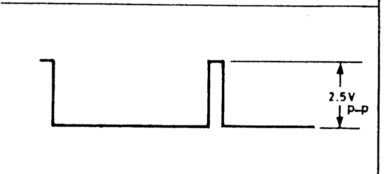
Q1360E REC 100mV/1Cμs/div



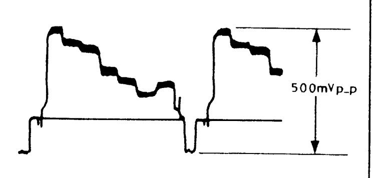
IC101 ⑰ PB 100mV/10μs/div



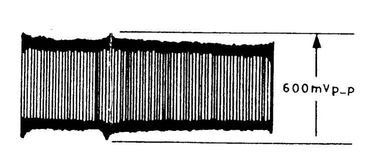
TP106 PB 100mV/10μs/div



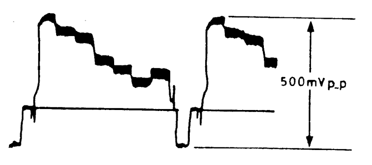
IC161 ⑪ PB 1.0V/10μs/div



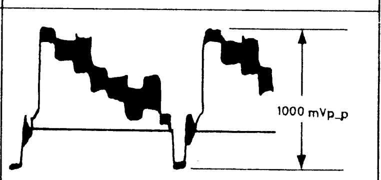
TP106 REC 100mV/10μs/div



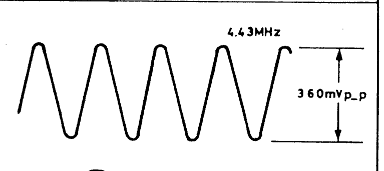
CN104③ PB 200mV/5ms/div



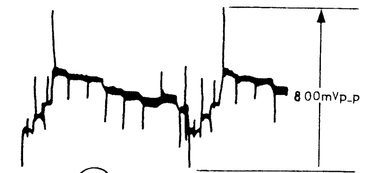
IC101 ⑲ PB 100mV/10μs/div



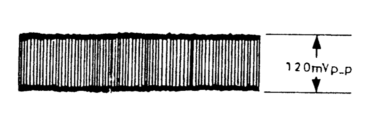
TP104 PB 200mV/10μs/div



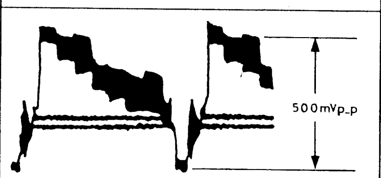
IC161 ⑱ PB 50mV/100ns/div



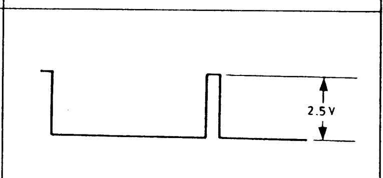
IC101 (57) REC 200mV/10μs/div



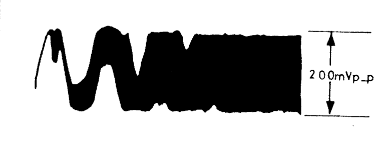
IC101 ㊶ PB 100mV/5ms/div



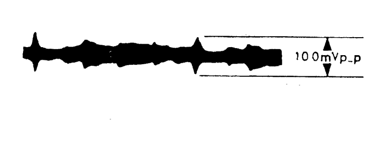
IC111 ① PB 100mV/10μs/div



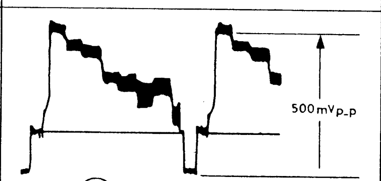
TP107 REC/PB 1.0V/10μs/div



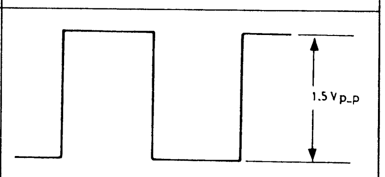
TP192 REC 50mV/100ns/div



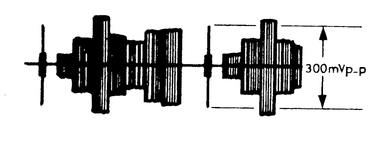
IC121 ㊷ PB 50mV/10μs/div



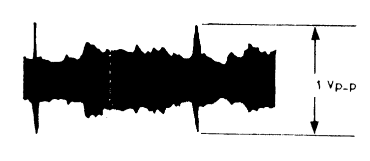
IC101 ⑪ PB 100mV/10μs/div



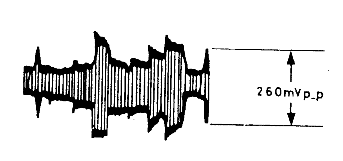
IC101 (51) REC/PB 50mV/5ms/div



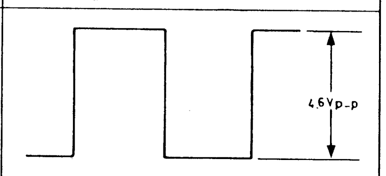
CN102① REC 100mV/10μs/div



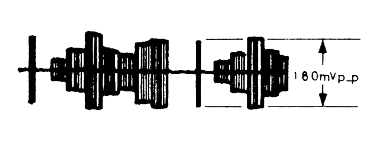
IC121 ㊱ PB 100mV/10μs/div



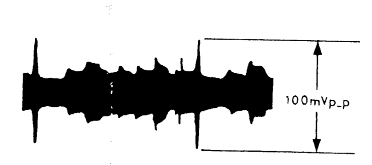
IC121 ㉜ PB 100mV/10μs/div



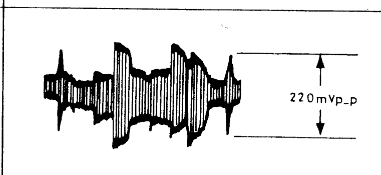
IC121 ㊼ REC/PB 1.0V/5ms/div



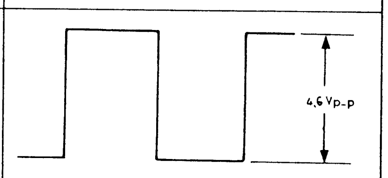
IC121 ㉜ REC 50mV/10μs/div



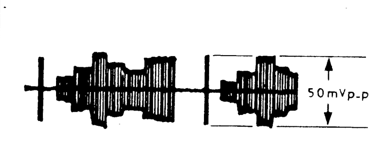
IC121 ㉞ PB 50mV/10μs/div



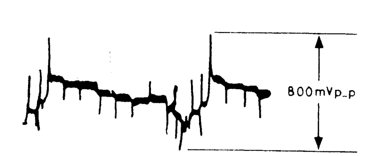
IC121 ㉚ PB 100mV/10μs/div



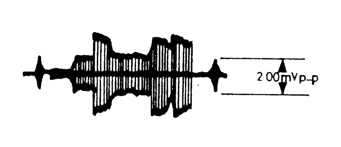
CN104② REC/PB 1.0V/10ms/div



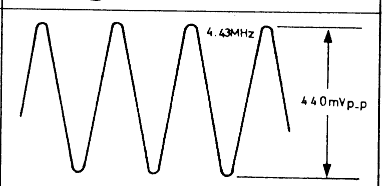
IC121 ㉚ REC 50mV/10μs/div



IC101 (57) PB 100mV/10μs/div

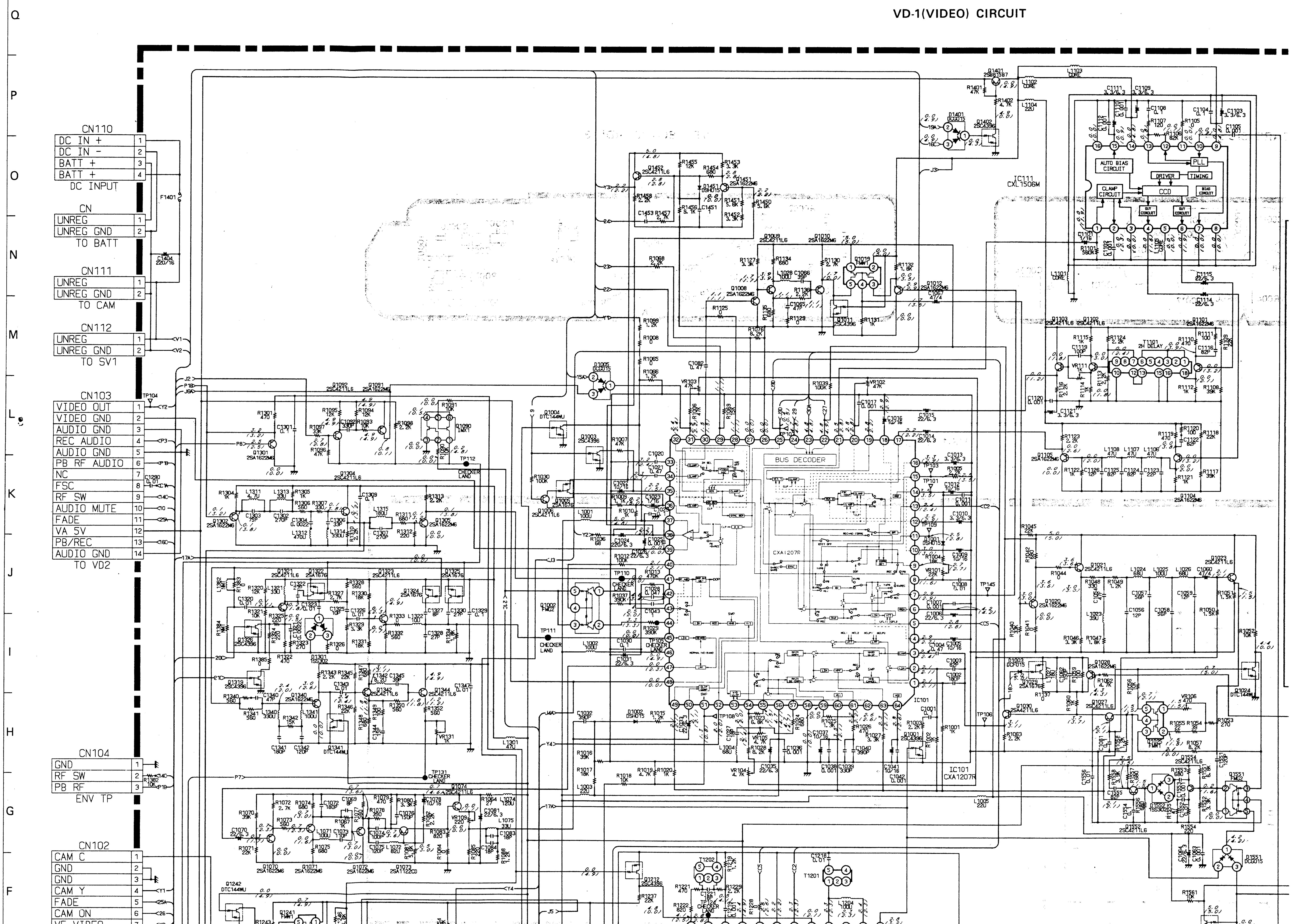


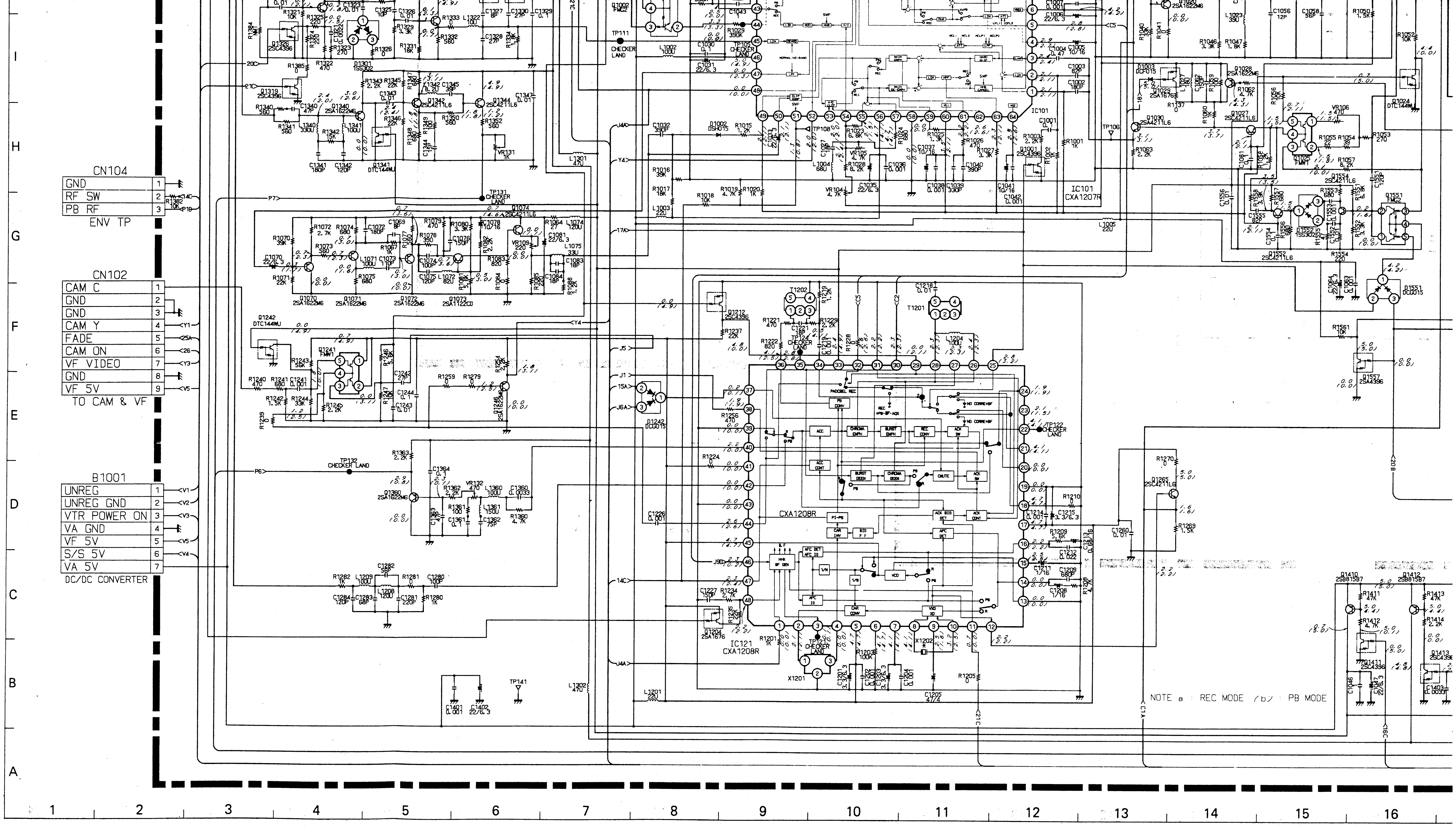
IC121 ㊳ PB 100mV/10μs/div



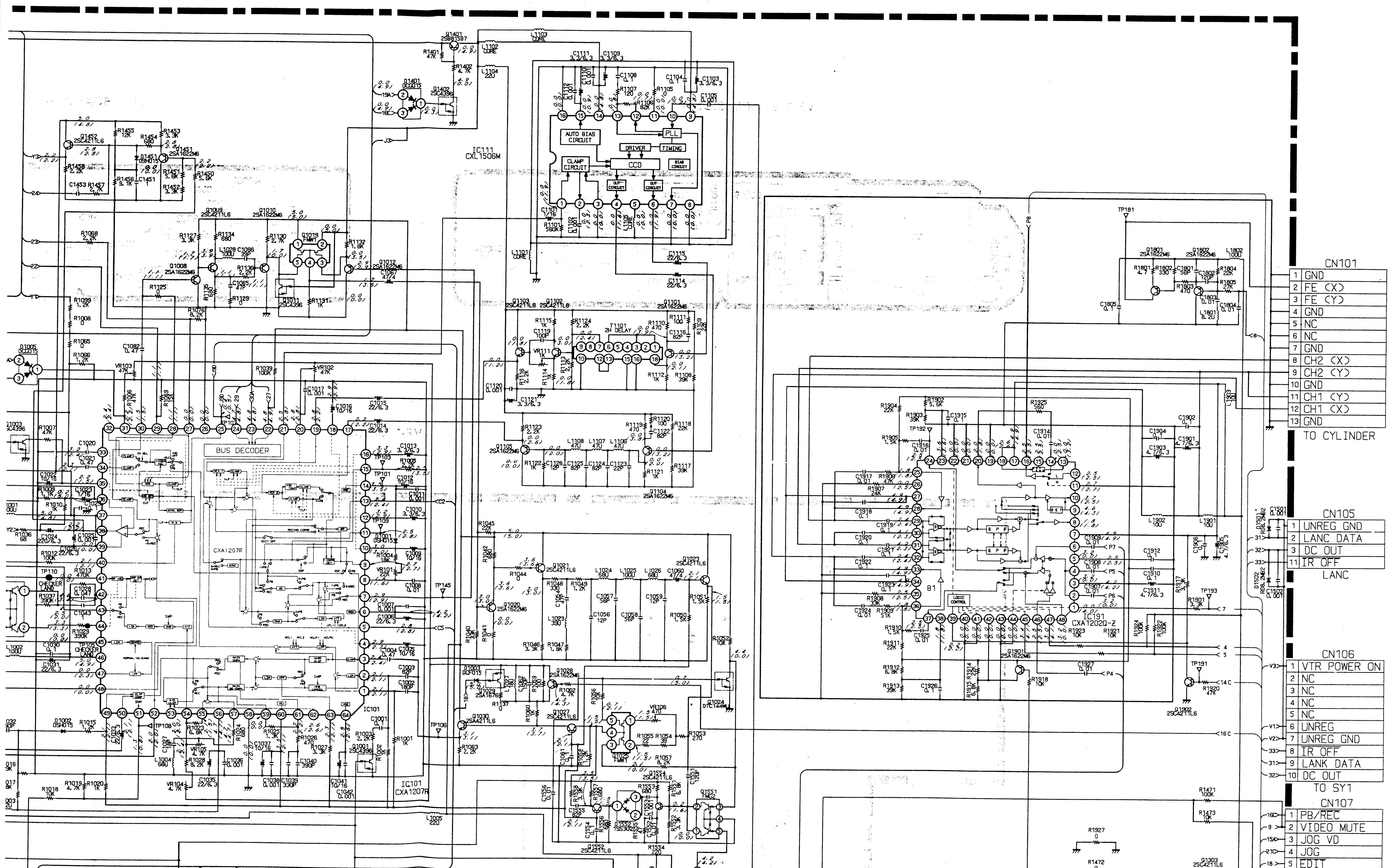
IC111 ⑩ REC/PB 100mV/100ns/div

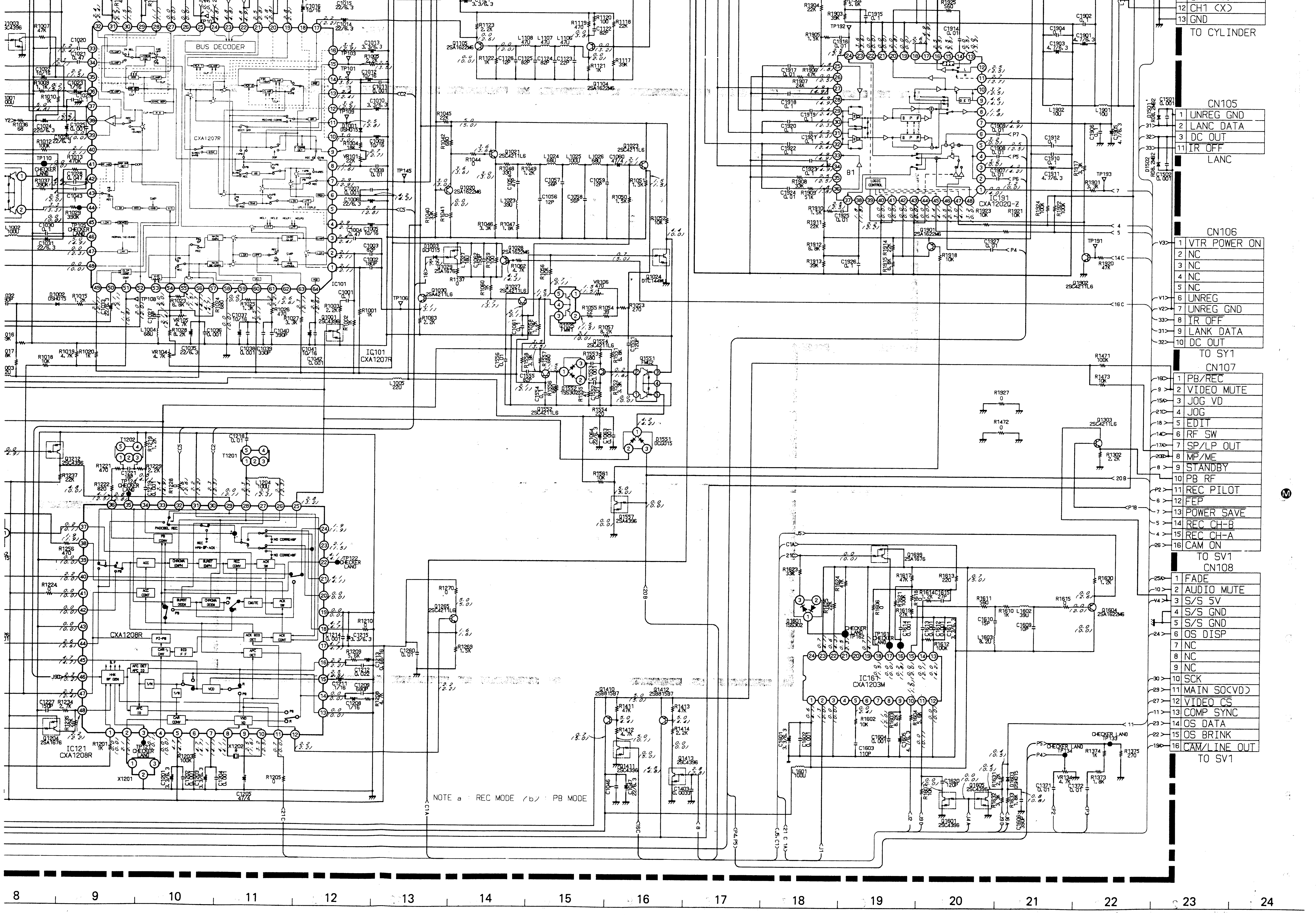
VD-1(VIDEO) CIRCUIT


Q
P
O
N
M
L
K
J
I
H
G
F
CN110
DC IN +
DC IN -
BATT +
BATT +
DC INPUT
CN
UNREG
UNREG GND
TO BATT
CN111
UNREG
UNREG GND
TO CAM
CN112
UNREG
UNREG GND
TO SV1
CN103
VIDEO OUT
VIDEO GND
AUDIO GND
REC AUDIO
AUDIO GND
PB RF AUDIO
NC
FSC
RF SW
AUDIO MUTE
FADE
VA 5V
PB/REC
AUDIO GND
TO VD2
CN104
GND
RF SW
PB RF
ENV TP
CN102
CAM C
GND
GND
CAM Y
FADE
CAM ON
F1401
C1404 220/16
TP104
IC111
CXL1506M
AUTO BIAS CIRCUIT
PLL
DRIVER
TIMING
CLAMP CIRCUIT
CCD
BIAS CIRCUIT
OUT CIRCUIT
T1101 2H DELAY
IC101
CXA1207R
BUS DECODER
TP110 CHECKER LAND
TP111 CHECKER LAND
TP112 CHECKER LAND
TP131 CHECKER LAND
TP105 CHECKER LAND
TP101
TP103
TP109
TP145
TP106
TP108
T1201
T1202
Q1401 2SB815B7
Q1401 DCG015
Q1402 2SC4396
Q1452 2SC4211L6
Q1451 2SA1622M6
D1451 DSH015
Q1009 2SC4211L6
Q1010 2SA1622M6
Q1019 FMW1
Q1008 2SA1622M6
Q1011 2SC4396
Q1012 2SA1622M6
Q1005 DCG015
Q1004 DTC144WU
Q1003 2SC4396
Q1006 2SC4211L6
Q1005 2SA1676
Q1092 2SC4211L6
Q1091 2SA1622M6
Q1090 IMX1
Q1301 2SA1622M6
Q1304 2SC4211L6
Q1302 2SA1622M6
Q1305 2SA1622M6
Q1321 2SC4211L6
Q1322 2SA1676
Q1323 2SC4211L6
Q1324 2SA1676
Q1325 2SA1676
Q1326 2SC4396
Q1301 1SS302
Q1319 2SC4396
Q1340 2SA1622M6
Q1342 2SC4211L6
Q1344 2SC4211L6
Q1341 DTC144WU
Q1002 FMG2
Q1070 2SA1622M6
Q1071 2SA1622M6
Q1072 2SA1622M6
Q1073 2SA1122CD
Q1074 2SC4211L6
Q1242 DTC144WU
Q1241 FMW1
Q1212 2SC4396
Q1103 2SC4211L6
Q1102 2SC4211L6
Q1101 2SA1622M6
Q1105 2SA1622M6
Q1104 2SA1622M6
Q1021 2SC4211L6
Q1020 2SA1622M6
Q1023 2SC4211L6
D1003 DCF015
Q1029 2SA1676
Q1028 2SA1622M6
Q1027 2SC4211L6
Q1030 2SA4211L6
Q1001 2SC4396
D1001 DSH015
D1002 DSH015
Q1025 FMW1
Q1024 DTC144WU
Q1554 2SC4211L6
Q1551 FMG2
Q1552 2SC4211L6
Q1555 1SS302
D1551 DCG015
L1103 CORE
L1102 CORE
L1104 22U
L1101 CORE
L1301 47U
L1005 22U

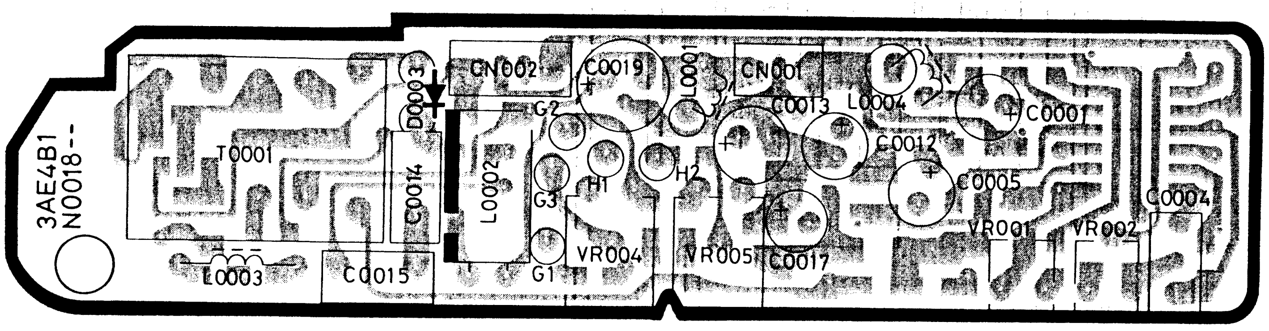

CN104
GND 1
RF SW 2
PB RF 3
ENV TP
CN102
CAM C 1
GND 2
GND 3
CAM Y 4
FADE 5
CAM ON 6
VF VIDEO 7
GND 8
VF 5V 9
TO CAM & VF
B1001
UNREG 1
UNREG GND 2
VTR POWER ON 3
VA GND 4
VF 5V 5
S/S 5V 6
VA 5V 7
DC/DC CONVERTER
IC101
CXA1207R
IC121
CXA1208R
CXA1208R
TP111 CHECKER LAND
TP131 CHECKER LAND
TP132 CHECKER LAND
TP121 CHECKER LAND
TP122 CHECKER LAND
TP124 CHECKER LAND
TP105 CHECKER LAND
TP106
TP108
TP141
T1201
T1202
X1201
X1202
NOTE a : REC MODE (b) : PB MODE
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16

VD-1(VIDEO) CIRCUIT

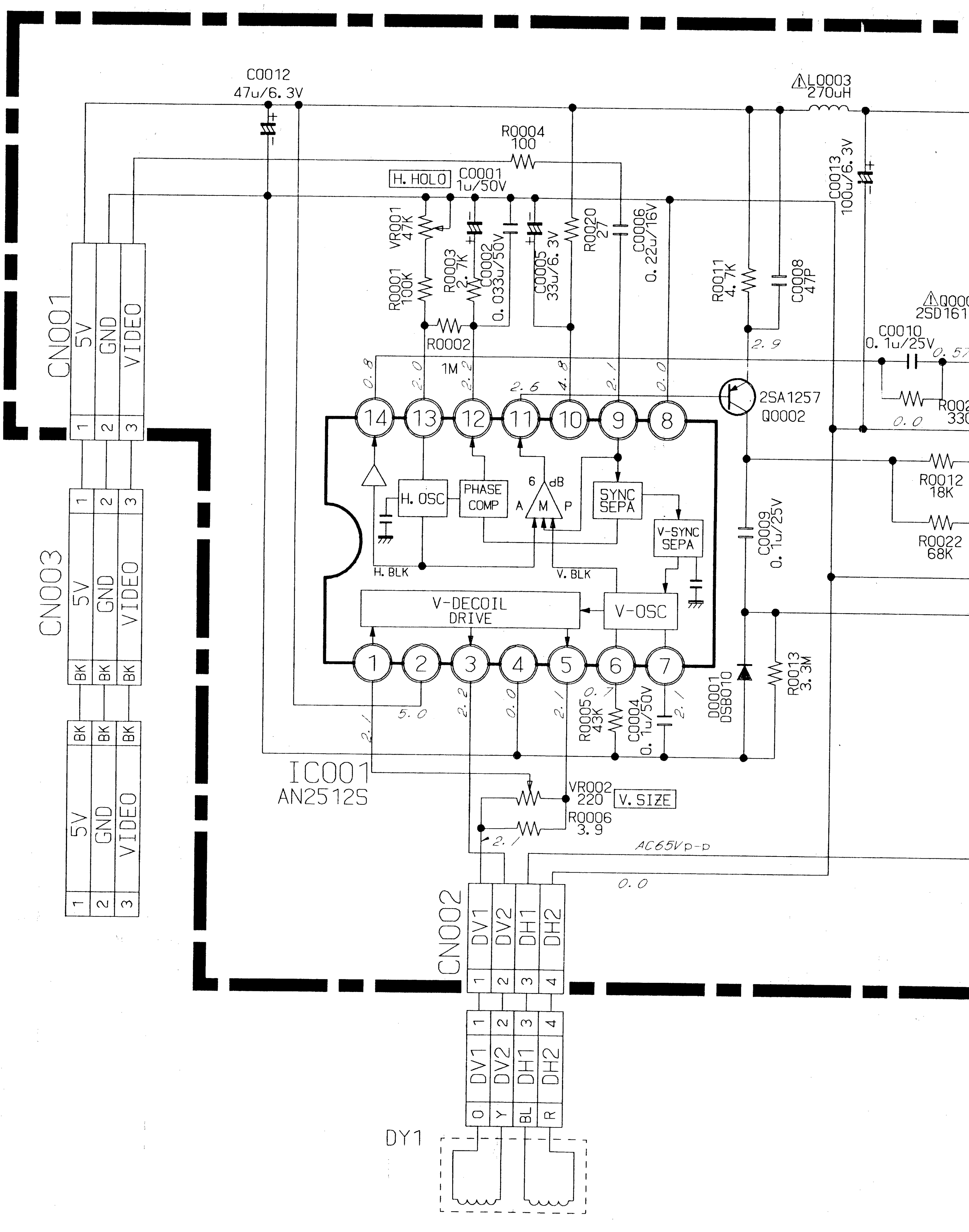

IC111
CXL1506M
AUTO BIAS CIRCUIT
PLL
DRIVER
TIMING
CLAMP CIRCUIT
CCD
BIAS CIRCUIT
OUT CIRCUIT
T1101
2H DELAY
BUS DECODER
CXA1207R
IC101
CXA1207R
IC191
CXA1202Q-Z
LOGIC CONTROL
B P F
CHECKER LAND
TP101
TP103
TP105
TP106
TP108
TP109
TP110
TP145
TP181
TP191
TP192
TP193
CN101
1 GND
2 FE (X)
3 FE (Y)
4 GND
5 NC
6 NC
7 GND
8 CH2 (X)
9 CH2 (Y)
10 GND
11 CH1 (Y)
12 CH1 (X)
13 GND
TO CYLINDER
CN105
1 UNREG GND
2 LANC DATA
3 DC OUT
11 IR OFF
LANC
CN106
1 VTR POWER ON
2 NC
3 NC
4 NC
5 NC
6 UNREG
7 UNREG GND
8 IR OFF
9 LANK DATA
10 DC OUT
TO SY1
CN107
1 PB/REC
2 VIDEO MUTE
3 JOG VD
4 JOG
5 EDIT

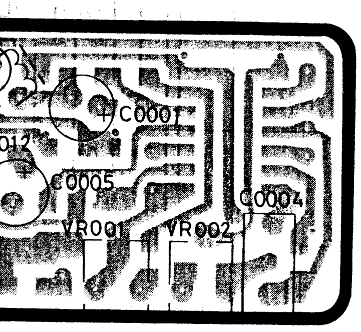

BUS DECODER
CXA1207R
IC101
CXA1207R
IC121
CXA1208R
CXA1208R
IC161
CXA1203M
IC191
CXA1202Q-Z
LOGIC CONTROL
B1
NOTE a : REC MODE (b) : PB MODE
12 CH1 (X)
13 GND
TO CYLINDER
CN105
1 UNREG GND
2 LANC DATA
3 DC OUT
11 IR OFF
LANC
CN106
1 VTR POWER ON
2 NC
3 NC
4 NC
5 NC
6 UNREG
7 UNREG GND
8 IR OFF
9 LANK DATA
10 DC OUT
TO SY1
CN107
1 PB/REC
2 VIDEO MUTE
3 JOG VD
4 JOG
5 EDIT
6 RF SW
7 SP/LP OUT
8 MP/ME
9 STANDBY
10 PB RF
11 REC PILOT
12 FEP
13 POWER SAVE
14 REC CH-B
15 REC CH-A
16 CAM ON
TO SV1
CN108
1 FADE
2 AUDIO MUTE
3 S/S 5V
4 S/S GND
5 S/S GND
6 OS DISP
7 NC
8 NC
9 NC
10 SCK
11 MAIN SO(VD)
12 VIDEO CS
13 COMP SYNC
14 OS DATA
15 OS BRINK
16 CAM/LINE OUT
TO SV1
CHECKER LAND
TP110
TP105
TP103
TP101
TP109
TP145
TP106
TP108
TP122
TP121
TP124
TP161
TP162
TP191
TP192
TP193
TP133
TP134
T1201
T1202
X1201
X1202
Q1001 2SC4396
Q1002 DSH015
Q1003 DCF015
Q1020 2SA1622M6
Q1021 2SC4211L6
Q1023 2SC4211L6
Q1024 DTC144WU
Q1025 FMW1
Q1027 2SC4211L6
Q1028 2SA1622M6
Q1029 2SA1676
Q1030 2SC4211L6
Q1104 2SA1622M6
Q1105 2SA1622M6
Q1204 2SA1676
Q1212 2SC4396
Q1265 2SC4211L6
Q1303 2SC4211L6
Q1410 2SB1587
Q1411 2SC4396
Q1412 2SB1587
Q1413 2SC4396
Q1551 DCG015
Q1552 2SC4211L6
Q1553 2SC4211L6
Q1557 2SA4396
FMG2
Q1601 2SC4396
Q1604 2SA1622M6
Q1605 2SC4396
Q1699 2SA1676
Q1901 2SA1622M6
Q1902 2SC4211L6
D1551 1SS302
D1601 1SS302
M
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24

VF-1 BOARD SIDE A

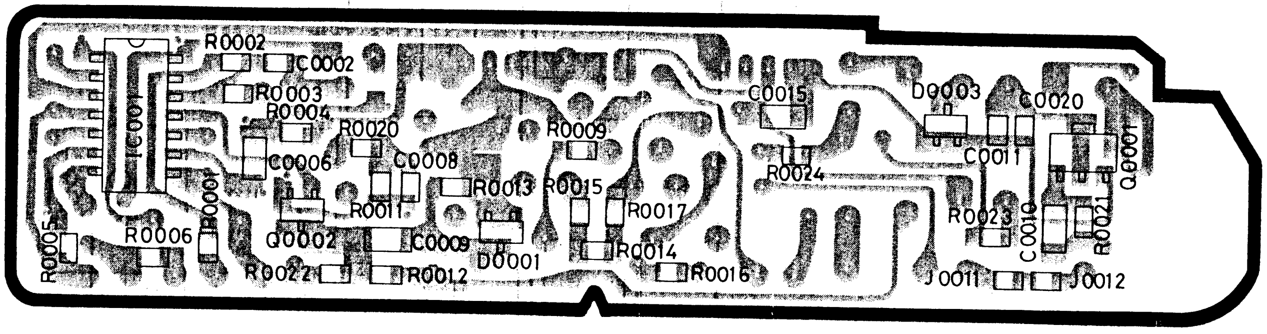

3AE4B1
N0018--
T0001
L0003
C0015
C0014
D0003
CN002
L0002
G2
G3
G1
C0019
H1
H2
VR004
L0001
CN001
C0013
VR005
C0017
L0004
C0012
C0001
C0005
VR001
VR002
C0004

VF-1 CIR

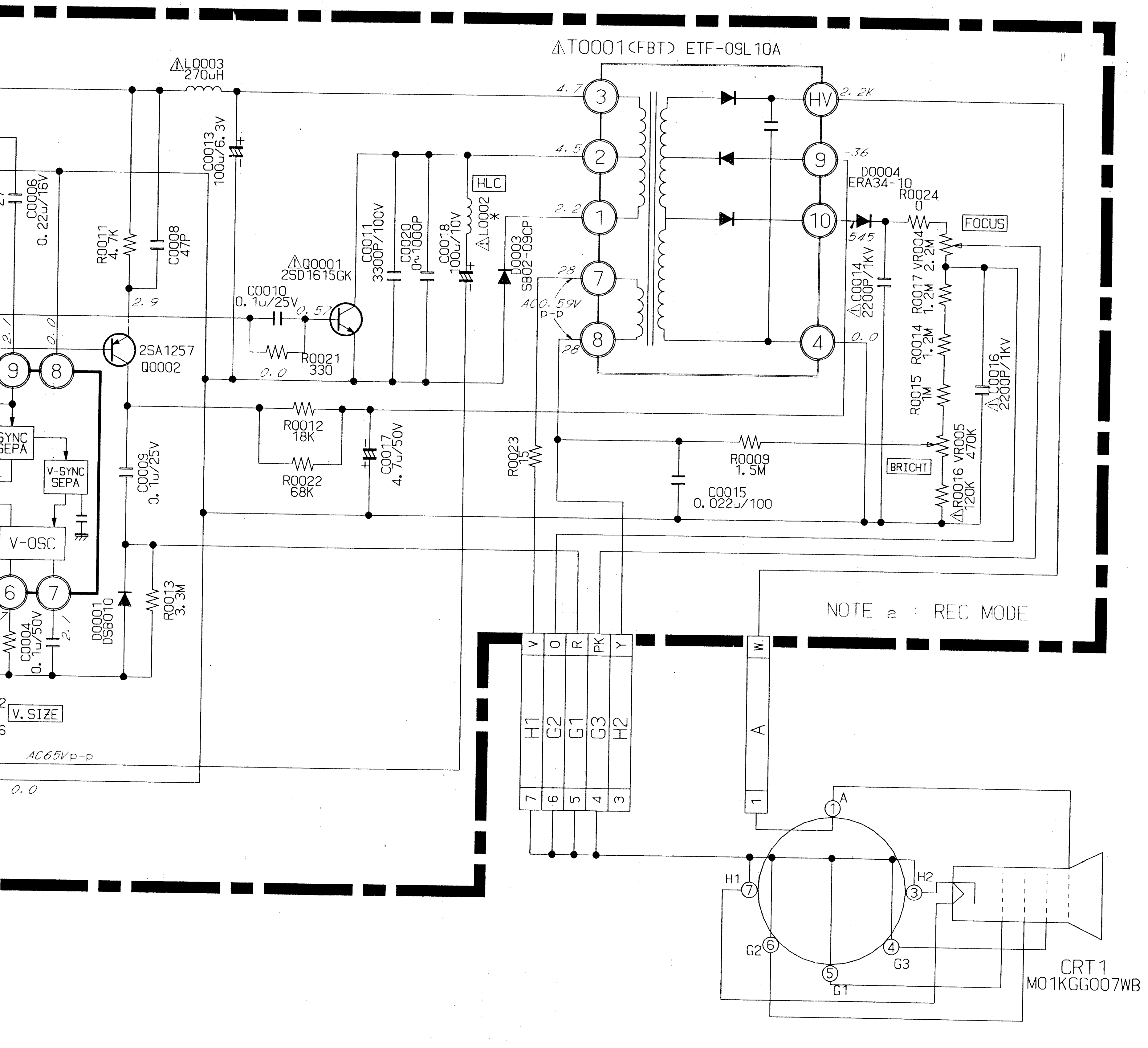

C0012
47u/6.3V
R0004
100
H. HOLD
C0001
1u/50V
VR001
47K
R0001
100K
R0003
2.7K
C0002
0.033u/50V
C0005
33u/6.3V
R0020
27
C0006
0.22u/16V
R0002
1M
R0011
4.7K
C0008
47P
L0003
270uH
C0013
100u/6.3V
Q000
2SD161
C0010
0.1u/25V
R002
330
R0012
18K
R0022
68K
2SA1257
Q0002
C0009
0.1u/25V
D0001
DSB010
R0013
3.3M
CN001
5V
GND
VIDEO
CN003
5V
GND
VIDEO
BK
H. OSC
PHASE COMP
6 dB
A
M
P
SYNC SEPA
V-SYNC SEPA
H. BLK
V. BLK
V-DECOIL DRIVE
V-OSC
IC001
AN2512S
R0005
43K
C0004
0.1u/50V
VR002
220
V. SIZE
R0006
3.9
AC65Vp-p
CN002
DV1
DV2
DH1
DH2
O
Y
BL
R
DY1
0.8
2.0
2.2
2.6
4.8
2.1
0.0
2.9
0.57
5.0
0.7


IC0001
C0005
VR001
VR002
C0004

VF-1 BOARD SIDE B


R0002
C0002
R0003
R0004
IC001
R0020
R0009
C0015
D0003
C0020
C0006
C0008
R0024
C0011
Q0001
R0001
R0011
R0013
R0015
R0017
R0023
C0010
R0021
R0005
R0006
Q0002
C0009
D0001
R0014
R0022
R0012
R0016
J0011
J0012

VF-1 CIRCUIT


⚠T0001(FBT) ETF-09L10A
⚠L0003
270uH
C0013
100u/6.3V
C0006
0.22u/16V
R0011
4.7K
C0008
47P
2.9
⚠Q0001
2SD1615GK
C0010
0.1u/25V
0.57
R0021
330
0.0
C0011
3300P/100V
C0020
0~1000P
C0018
100u/10V
HLC
⚠L0002
*
D0003
SB02-09CP
2SA1257
Q0002
SYNC SEPA
V-SYNC SEPA
V-OSC
R0012
18K
R0022
68K
C0017
4.7u/50V
C0009
0.1u/25V
D0001
DSB010
R0013
3.3M
C0004
0.1u/50V
V.SIZE
AC65Vp-p
0.0
4.7
4.5
2.2
28
AC0.59V p-p
28
HV
2.2K
-36
D0004
ERA34-10
R0024
0
FOCUS
545
⚠C0014
2200P/1KV
R0017
1.2M
VR004
2.2M
0.0
R0014
1.2M
R0015
1M
⚠C0016
2200P/1KV
R0023
15
R0009
1.5M
C0015
0.022u/100
BRICHT
VR005
470K
⚠R0016
120K
NOTE a : REC MODE
V O R PK Y
W
H1 G2 G1 G3 H2
7 6 5 4 3
A
1
CRT1
M01KGG007WB
A
H1
H2
G2
G3
G1